

Annual

HEALTH REPORT

FOR THE
CITY OF NEWARK



1946



HON. JOHN A. BRADY, Director,
Department of Public Affairs.

Department of Health, Newark, N. J.
CHARLES V. CRASTER, M.D., D.P.H.,
Health Officer.

HEALTH REPORT-1946

NEWARK, N. J.

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CITY OF NEWARK, NEW JERSEY
FIVE CITY COMMISSIONERS (ELECTED FOR 4 YRS)
ALL CITY FUNDS, ORDINANCES, APPOINTMENTS &C

NEWARK HEALTH DEPARTMENT
ORGANIZATION
ALL EMPLOYEES-CIVIL SERVICE

ONE OF THESE
DIRECTOR OF PUBLIC AFFAIRS
HAS CHARGE OF
HOSPITALS - HEALTH - RELIEF, ETC.

DEPARTMENT ENFORCES
STATE LAWS AND
LOCAL ORDINANCES ON HEALTH

HEALTH DEPT.

HEALTH OFFICER
EXECUTIVE HEAD

EXECUTIVE DIVISION
ADMINISTRATION, VITAL
STATISTICS, EDUCATION,
MAINTENANCE, ETC.

LABORATORIES
CHEMICAL, BACTERIOLOGICAL, SEROLOGICAL
SERVE ALL DIVISIONS

DISPENSARY CLINICS
TREATMENT OF INDIGENT PATIENTS

INFANT & CHILD HEALTH

SANITATION

FOOD & DRUG
CONTROL
DIV.

MEAT
INSPECTION
DIV.

INDUSTRIAL
HYGIENE
DIV.

PLUMBING
DIV.
NEW
PLUMBING

SANITARY
DIV.
ENVIRONMENTAL
SANITATION,
DGB CONTROL &C

PAROCHIAL
SCHOOL
MED. INSP.
HEALTH EDUC.

CHILD
HYGIENE
DIV.

BABY
KEEP-CELL
STATIONS

DISEASE CONTROL

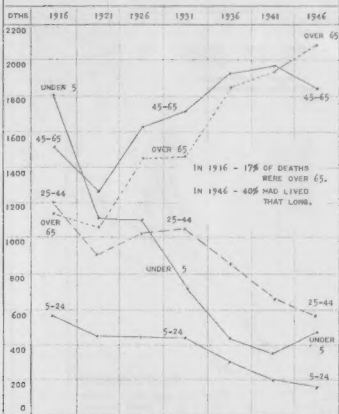
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DISEASE
DIV.

TUBERCULOSIS
DIV.
CONTROL &
CLINICS

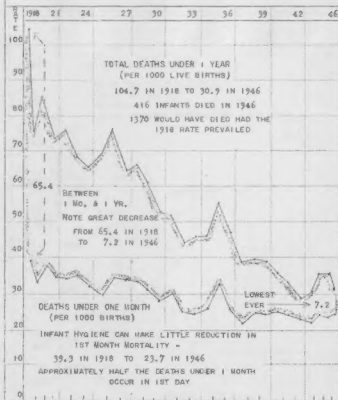
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DISEASE
DIV.
CONTROL &
CLINICS

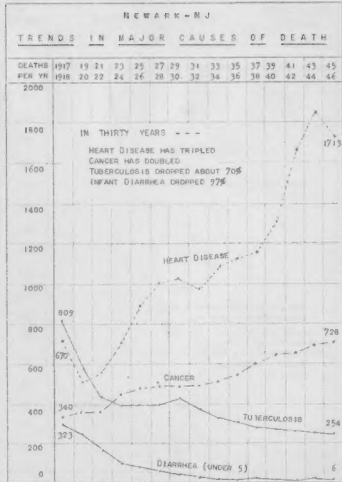
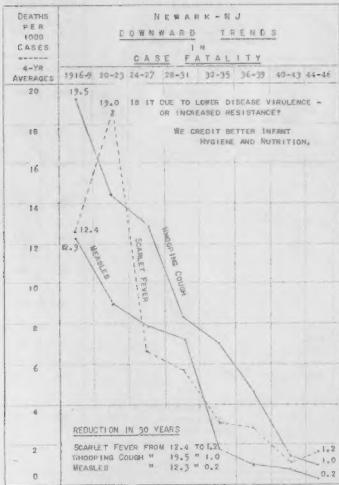
OCCUPATIONAL
CLINIC
DOMESTICS-
FOODHANDLERS
SPEC. GROUPS

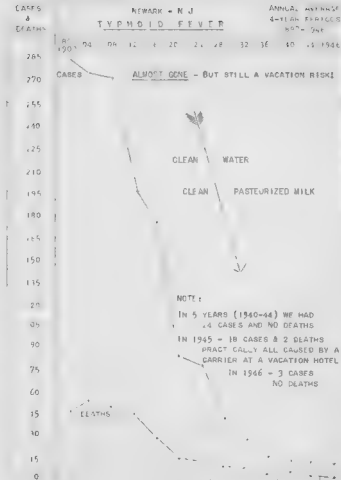
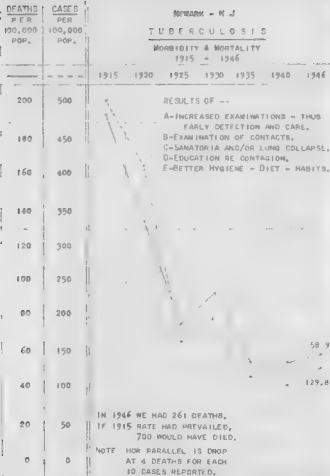
NEWARK - N.J.
MORTALITY TRENDS
 (BY AGE)
 PEOPLE LIVE LONGER

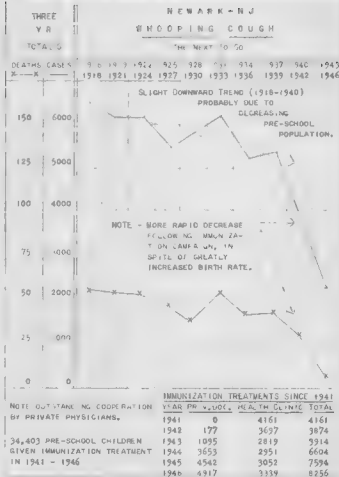
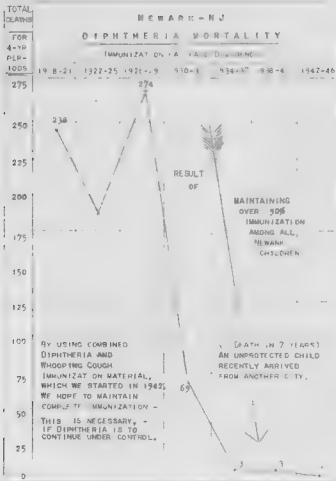


NEWARK - N.J.
INFANT MORTALITY
 1918 - 1946









HEALTH REPORT--1946 NEWARK, N. J.

CHARLES V. CRASTER, M.D., D.P.H. -- HEALTH OFFICER

TO HONORABLE JOHN A. BRADY, DIRECTOR OF PUBLIC AFFAIRS

AND TO THE CITIZENS OF NEWARK, N. J.

THE HEALTH STATUS OF 1946

AS REQUIRED TO REPORT THAT NEWARK HAS ENJOYED ANOTHER YEAR OF GOOD HEALTH AS EVIDENCED BY LOW MORTALITY RATES AND FREEDOM FROM MAJOR PREVALENCE OF ANY MAJOR DISEASE. THE GENERAL MORTALITY RATE FROM ALL CAUSES, ON AN ESTIMATED POPULATION OF 443,000, WAS 11.2, THE LOWEST RATE IN 104 YEARS. THE TUBERCULOSIS MORTALITY WAS 1.1, THE LOWEST EVER FOR FREEBORNS AND INFANT MORTALITY WAS 30.9, ALSO THE SECOND LOWEST EVER RECORDED.

INTERESTING DEVELOPMENTS

1. Diphtheria OUR IMMUNIZATION CAMPAIGN AGAINST DIPHTHERIA AND WHOOPING COUGH CONTINUED WITH SUCH SUCCESS THAT IT IS CONSERVATIVE TO ESTIMATE THAT OVER 50% OF ALL OF AGE 15,000 IS WELL OVER 90% PROTECTED AGAINST DIPHTHERIA AND 50% HAVE RECEIVED INJECTIONS WITH WHOOPING COUGH IMMUNIZATION MATERIAL. THE PROGRAM GREATLY AIDED BY COMBINING DIPHTHERIA TOXOID WITH PERTUSSIS VACCINE FOR SIMULTANEOUS INJECTION. PRIVATE DOCTORS CONTINUE TO GIVE EXCELLENT COOPERATION AND REPORT 12,841 IMMUNIZATIONS AND VACCINATIONS DURING THE YEAR COMPARED WITH 7,814 CARRIED OUT AT HEALTH CLINICS. SERIOUS CONSIDERATION IS BEING GIVEN TO RECOMMENDING WHOOPING COUGH IMMUNIZATION TO EXPECTANT MOTHERS TO PROVIDE ANTIBODY PROTECTION DURING THE MOST DANGEROUS FIRST MONTHS OF INFANT LIFE.

2. School Children THERE WERE FOUR CASES OF DIPHTHERIA IN DECEMBER, ALL AMONG SCHOOL CHILDREN WHO HAD BEEN IMMUNIZED MORE THAN SIX YEARS BEFORE. WE HAVE KNOWN THAT IMMUNITY DILUTES AFTER THREE YEARS BUT THIS WAS OUR FIRST EXPERIENCE WITH CASES ACTUALLY OCCURRING BECAUSE OF THIS FACT IMMUNITY. THE IMMUNITY WAS LATELY NOT TESTED A CAMPAIGN FOR SINGLE BOOSTER INJECTIONS FOR ALL CHILDREN TO MAINTAIN IMMUNITY, WHERE THREE YEARS HAVE ELAPSED SINCE ORIGINAL IMMUNIZATION. ALL CHILDREN ENTERING SCHOOL WILL BE CHECKED AND THEIR IMMUNITY REEVALUATED WHEN NEEDED.

3. Measles A THOUGH FREE FROM MAJOR PREVALENCE OF ANY MAJOR DISEASE, THE CITY DID EXPERIENCE THE MOST WIDESPREAD EPIDEMIC OF MEASLES EVER RECORDED, WITH 1,514 CASES, KILLING 10% OF THEM IN THE TWO MONTHS, JANUARY AND APRIL. THERE WERE ONLY TWO DEATHS WITH A FATALITY OF MEASLES THIRTY YEARS AGO PREVALENT, WE WOULD HAVE HAD 130 DEATHS INSTEAD OF TWO. INCIDENTALLY, MEASLES IMMUNE GLOBULIN WHICH HAS PROVEN TO BE EFFECTIVE AND SHORTLY AVAILABLE FOR PROTECTION AGAINST MEASLES AT LEAST TO REDUCE SEVERITY, WAS SECURED FOR FREE DISTRIBUTION AND 5,314 PACKAGES DISTRIBUTED, PRIMARILY FOR INFANTS UNDER THREE WHEN IN CONTACT WITH CASES IN THE FAMILY.

4. Influenza A NEW HOOCHOUR WAS TRIED OUT IN THE SPRING AND OVER 3,000 PAROCHIAL SCHOOL CHILDREN IN THE OLDER GRADES OVER 10 YEARS OF AGE, AND SEVERAL HUNDRED IN PRIVATE SCHOOLS WERE INJECTED WITH TYPE A & B INFLUENZA VACCINE. THE DEPARTMENT ALSO INJECTED A NUMBER OF ADULTS INCLUDING MANY POLICEMEN, AND SEVERAL LARGE COMPANIES PROVIDED THE TREATMENT FOR THEIR EMPLOYEES AT COMPANY EXPENSE. THE WORK WAS BASED ON THE OPINION OF AUTHORITIES THAT INFLUENZA MIGHT REASONABLY BE EXPECTED IN 1946 OR 1947. AS THE DISEASE DID NOT DEVELOP DURING THE YEAR, WE CANNOT MEASURE ITS VALUE, ALTHOUGH STATISTICAL AUTHORITIES HAVE MADE MODERATE PREDICTIONS BASED ON THEIR EXPERIENCE. APPARENTLY, ONE INJECTION GIVES IMMUNITY FOR AT LEAST A FULL YEAR. WE CAN REPORT, HOWEVER, THAT THERE WERE NO MAJOR REACTIONS AMONG THE LARGE GROUP OF CHILDREN AND ONLY MINOR REACTIONS AMONG ADULTS.

TUBERCULOSIS CASE FINDING AMONG THE OUTSTANDING EFFORTS OF THE YEAR WAS OUR INTENSIFIED TUBERCULOSIS CASE-FINDING PROGRAM AMONG DOG-OWNERS, FOOD HANDLERS AND INDUSTRIAL WORKERS. OVER 30,000 ROENTGEN 4"x5" X-RAYS AT OUR CO-OPERATIONAL CLINIC AND THE DISCOVERY BY THAT MEANS, OF 75 INSPECTED CASES OF THE DISEASE, MOST OF THEM IN THE EARLY STAGES AND THEREFORE AMENABLE TO TREATMENT.

DOG RABIES THE YEAR WAS MARKED BY RATHER HIGH PREVALENCE OF RABIES AMONG DOGS OF NEWARK AND OTHER PARTS OF THE STATE. STARTING WITH TWO CASES IN JANUARY 1946, WE HAD A TOTAL OF 28 CASES IN THE SEVEN MONTHS TO JULY 1ST. THERE WERE SEVEN CASES IN THE LAST SIX MONTHS OR 34 FOR THE YEAR. ALL THE CASES WERE PROVEN BY LABORATORY EXAMINATION OF THE ANIMALS. THE CONDITION WAS SO WIDESPREAD THROUGHOUT THE STATE THAT THE STATE DEPARTMENT OF HEALTH ESTABLISHED A QUARANTINE IN THREE MONTHS. HOWEVER, WE DO OWNERS TO TAKE THE IR AN ANNUAL OFF BEHAVIOR. FIVE CASES EXACT SECRETLY CLAIMED. IN SEVERAL OF THESE AND THE FACT THAT A NEWARK ORDINANCE REQUIRES ALL DOGS TO BE Muzzled OR Muzzled AT ALL TIMES, THERE WERE 2,389 B.B.T. REPORTED DURING THE YEAR, AND 1,000 DOGS AND 1,000 BITTEN OR EXPOSED TO RABID ANIMALS, WERE GIVEN FREE FIRST AID TREATMENT. EXTRA COLLECTIONS OF STRAY DOGS WAS PROVIDED BY THE HUMANE SOCIETY SHELTER TO AID IN CURBING SPREAD OF THE DISEASE. THEY DESTROYED 145 DOGS AND HELD ONE FOR OBSERVATION. A DOG FROM NEWARK WAS Bitten BY A DOG AND ONE CHILD FROM THE STATE OF NEW YORK WAS Bitten BY A DOG.

GENERAL MORTALITY

DEATHS FOR THE YEAR 1946 FROM ALL CAUSES TOTALLED 5,078 OR A DEATH RATE OF 11.1 PER 1,000, BASED ON A POPULATION OF 443,000. THIS IS THE LOWEST IN 8 YEARS, AN ENCOURAGING REDUCTION FROM 11.6 IN 1944 AND 1945, AND 12.6 IN 1943. DURING THE YEAR, THERE WERE 178 NEGRO DEATHS OR A RATE OF 3.6, ON AN ESTIMATED POPULATION OF 50,000, COMPARED WITH THE PREVIOUS RECORD LOW MORTALITY OF 14.1 IN 1944. THESE FIGURES INCLUDE ALL DEATHS WITHIN THE CITY LIMITS. AS NEWARK IS A HOSPITAL CENTER SERVING MANY NEARBY COMMUNITIES, THE NON-RESIDENT DEATHS IN THE CITY EXCEED THE DEATHS OF NEWARKERS DYING INSIDE THE CITY. SUBTRACTING 924 NON-RESIDENT DEATHS AND ADDING 141 NEWARKERS KNOWN TO HAVE DIED OUTSIDE THE CITY, WE HAVE AN ADJUSTED TOTAL OF 4,395 AND AN ADJUSTED RATE OF 9.4 PER 1,000. THIS IS THE LOWEST IN 6 YEARS.

CRUDE AND ADJUSTED DEATH RATES

YEAR	POPULATION	CRUDE DEATHS	CRUDE DEATH RATE	ADJUSTED DEATHS	ADJUSTED DEATH RATE
1940	429,000	5,025	11.7	4,762	11.1
1941	429,000	5,127	11.6	4,415	10.3
1942	429,000	5,256	11.9	4,659	10.8
1943	440,000	5,702	12.6	5,043	11.5
1944	440,000	5,201	11.5	4,535	10.3
1945	443,000	5,292	11.6	4,586	10.4
1946	443,000	5,078	11.1	4,395	9.9

PRINCIPAL CAUSES OF DEATH

THE OUTSTANDING CAUSE OF DEATH AS IT HAS BEEN FOR MANY YEARS, WAS ORGANIC HEART DISEASE WITH 1,113 DEATHS. THIS CONTINUED THE GENERALLY TEMPORARY DOWNWARD TREND WHICH BEGAN IN THE LATTER PART OF 1935 IN WHICH YEAR THE RECORD HIGH WAS ESTABLISHED WITH 1,751 DEATHS. DEATHS FROM HEART DISEASES FORMED APPROXIMATELY ONE-THIRD OF ALL DEATHS. THE NEXT HIGHEST CAUSE OF DEATH WAS CUNTH WITH 731 AND APOPLEXY 463. TUBERCULOSIS, FORMERLY A LEADING CAUSE OF DEATH, FELL TO 241, A SLIGHT INCREASE OVER THE RECORD LOW OF 247 IN 1945.

THE CAUSE OF DEATH NOT MENTIONED AMONG THE LEADERS WAS PNEUMONIA, (ALL FORMS) OF WHICH THERE WERE 189 DEATHS DURING THE YEAR. THIS IS THE LOWEST EVER RECORDED. ALTHOUGH THE MONTHLY CAUSE OF PNEUMONIA WAS QUITE LOW, 1,309, COMPARED WITH A RECORD LOW OF 1,172 IN 1944, THE PROPORTION OF DEATHS WAS EVEN LOWER, PROBABLY DUE TO THE EFFICIENCY AND MORE GENERAL USE OF SULFA DRUGS AND PENICILLIN.

ACCIDENTAL DEATHS THERE WERE 234 ACCIDENTAL DEATHS, THE LOWEST TOTAL IN 8 YEARS AND WELL BELOW THE 11-YEAR NORMAL OF 270. AUTOMOBILE DEATHS NUMBERED 88 AND ALTHOUGH THIS WAS A SLIGHT INCREASE OVER THE RECORD LOW OF 57 IN 1945, IT WAS WELL BELOW THE NORMAL OF 75 FOR THE PAST 11 YEARS. AS USUAL, ACCIDENTAL FALLS WERE THE PRINCIPAL CAUSE WITH 90 DEATHS. THAT AGE IS A FACTOR IN ACCIDENTS IS INDICATED BY THE FACT THAT 97, OR OVER 40%, OF SUCH DEATHS WERE OVER 65 YEARS OF AGE. THERE WERE ONLY 96 DEATHS IN THE 40 YEAR ADULT GROUP FROM 25 TO 65 YEARS OF AGE; 29 CHILDREN UNDER 14 AND 12 IN THE YOUNG ADULT GROUP 15 TO 24.

ALL INFANT DEATHS BY PRINCIPAL CAUSES

	1946	1945	1944	1943	1942	1941	1940	1939	1938	1937
TOTAL	214	271	270	304	271	235	258	226	268	343
AT HOME AND MOTORCYCLE	16	57	77	90	71	69	73	71	61	110
ACCIDENTAL FALLS	90	107	92	87	99	100	83	81	101	102
ACCIDENTAL BURNS	12	13	14	19	13	16	9	16	20	15
ASPHYXIA - BED CLOTHES	8	9	3	6	9	6	6	3	5	4
ALCOHOLISM	2	5	9	8	5	4	7	5	6	11
POISON	3	3	0	0	0	4	4	5	4	2
CRUSHING	6	8	2	2	7	7	6	-	-	2
CONFLAGRATION	8	11	9	9	4	3	13	1	10	4
DROWNING	5	4	5	13	11	3	10	9	12	18
ELECTROCUTION	3	1	2	1	1	1	2	0	3	5
ELEVATOR	0	1	1	0	0	1	1	1	0	0
HEAT EXHAUSTION	1	1	7	4	1	3	2	2	5	8
ILLUMINATING GAS	13	23	26	23	16	6	13	4	18	14
RAILROAD	2	5	5	6	12	2	7	1	5	9
TROLLEY	0	1	0	3	0	0	0	0	0	1
MISCELLANEOUS	15	22	18	33	17	10	22	19	17	18

AN INFANT'S THERE WERE 416 DEATHS UNDER ONE YEAR OR AN INFANT MORTALITY OF 30.9 PER THOUSAND LIVING BIRTHS. THIS IS ONLY SLIGHTLY HIGHER THAN THE RECORD LOW OF 29.3 ESTABLISHED IN 1942. IT IS ENCOURAGING TO NOTE THAT THERE WERE ONLY 3 INFANT DEATHS FROM J. BARRERIA, THE LOWEST EVER RECORDED IN THE CITY. THIRTY YEARS AGO, WE AVERAGED 240 SUCH SUMMER DEATHS OR SO-CALLED "SUMMER COMPLAINT" DEATHS EVERY YEAR. PROBABLY ALL OF THIS LIFE SAVING IS DUE TO INSTRUCTION AND PRACTICE OF SANITARY PROCEDURES IN FEEDING THE BABY.

MATERNAL MORTALITY THERE WERE 18 DEATHS IN 1946 DUE TO CHILD-BIRTH OR A RATE OF 1.2 PER THOUSAND DELIVERIES. THIS IS AN EXCELLENT RECORD COMPARED WITH ONE-HUNDRED AND SIX DEATHS THIRTY YEARS AGO. THE RATE WAS THREE TIMES AS HIGH. ONLY TWO DEATHS WERE DUE TO PUERPERAL SEPTICEMIA.

MATERNAL DEATHS BY CAUSES

	1939	1940	1941	1942	1943	1944	1945	1946
TOTAL DEATHS	30	29	26	22	18	9	18	16
PUERPERAL SEPTICEMIA	5	2	5	2	4	0	4	2
ECTOPIC PREGNANCY	1	2	2	2	-	2	3	1
CAESARIAN SECTION	3	8	1	3	3	-	-	3
SELF-INDUCED ABORTION	5	-	-	-	-	-	-	-
SPONTANEOUS ABORTION	3	-	2	2	-	-	-	1
ECLAMPSIA	2	2	5	1	2	1	2	1
THE DEATH OF PREGNANCY	8	-	1	-	4	-	2	3
PLACENTA PRAEVIA	-	2	2	-	0	1	2	-
POST PARTUM HEMORRHAGE	-	4	2	4	2	-	5	2
ACCIDENTAL ABORTIONS	1	4	-	-	-	-	-	-
OBSCURE PREGNANCY	-	3	1	-	-	-	-	-
TOXEMIA OF PREGNANCY	-	2	3	-	-	-	-	1
CRIMINAL ABORTION (NOW CLASSIFIED AS PUERPERA)	-	-	2	2	1	1	-	-
CARDIAC FAILURE PREGNANCY	-	-	-	4	-	3	-	1
OBSCURE PREGNANCY	-	-	-	-	-	-	-	-
PULMONARY EMBOLISM	-	-	-	1	1	-	-	1
MATERNAL MORTALITY PER 1,000 DELIVERIES	3.7	3.3	2.6	1.8	1.5	0.8	1.5	1.2

DISBURSEMENTS

PERSONAL SERVICE - SALARIES	\$ 958,732.00
OTHER THAN PERSONAL SERVICE	
DRUGS AND SURGICAL SUPPLIES	\$ 15,444.20
RENTS, TAXES, ANNEXES, BABY STATIONS	10,486.00
POSTAGE, POST CARDS, STAMPED ENVELOPES	5,400.00
TELEPHONE SWITCHBOARD SERVICES	4,000.00
COAL, LIGHT AND HEAT	2,870.00
STATISTRY AND PRINTING	4,300.00
LAUNDRY SERVICES	1,800.00
MEDICAL TREATMENTS - INDIGENT	7,180.00
JANITOR SUPPLIES	1,481.00
LABORATORY AND SURGICAL APPARATUS	800.00
AUTOMOBILE AND MOTORCYCLE SUPPLIES	2,300.00
CARFARES, AUTOHIRE, CONVENTION EXPENSE	7,000.00
IN-SERVICE TRAINING - EMPLOYEES	880.00
LINENS AND UNIFORMS	1,000.00
RENTAL OF BUSINESS MACHINES	642.00
INSURANCE	1,013.00
MILK AND FOOD SAMPLES	700.00
SCORING DAIRY EXPENSE	120.00
LICENSE PLATES AND TAGS	300.00
	<u>67,716.20</u>
TOTAL	\$1,026,448.20

DISBURSEMENTS BY DIVISIONS

	SALARIES	SUPPLIES
EXECUTIVE	\$ 68,385.06	\$ 14,346.67
SANITARY	82,655.20	4,276.24
INDUSTRIAL HYGIENE	45,200.40	1,468.70
OCCUPATIONAL	30,170.27	-
CONTAGIOUS	73,454.76	3,021.03
PLUMBING	37,503.80	693.25
PAROCHIAL	36,418.58	239.75
FOOD AND DRUG	94,231.00	1,885.96
TUBERCULOSIS	38,533.22	258.39
VETERINARY	52,296.25	1,040.70
VENEREAL	108,440.14	5,844.88
DISPENSARY	167,410.42	20,892.75
LABORATORY	42,698.00	4,234.00
CHILD HYGIENE	<u>81,334.50</u>	<u>8,913.28</u>
TOTAL	\$958,732.00	\$ 67,716.20

RECEIPTS

PERMITS ANIMAL	\$ 1.90
" CHICKEN	306.00
" CHICKEN SLAUGHTERHOUSE	790.00
" PLUMBING	4,148.00
LICENSES ICE	670.00
" MILK	4,730.50
" PLUMBING	2,705.00
" REFUSE	86.00
" LIVE POULTRY	100.00
FEES REAL ESTATE SANITARY INSPECTION	34.00
" PLUMBERS EXAMINATION	1,200.00
" BACTERIOLOGICAL EXAMINATION	719.00
" OUT-OF-TOWN TREATMENT CLINICS	328.20
MISC. CASH SALES PRESCRIPTION BOTTLES	165.35
" TELEPHONE CALLS AND REFUNDS	23.31
" CASH SALE POSTAGE STAMPS	59.36
" CASH SALE DAIRY SCORE PADS, OLD FILM & SERUMS	<u>81.00</u>

DEPOSITED WITH CITY COMPTROLLER AS MISCELLANEOUS REVENUE . . \$16,147.62

FEES WERE RECEIVED FROM MILK PRODUCERS AND CREDITED TO A SPECIAL "DAIRY INSPECTION ACCOUNT". THESE RECEIPTS ARE USED BY MILK INSPECTORS FOR TRAVEL AND OTHER EXPENSE IN SUPERVISING NEWARK'S MILK SUPPLY \$16,595.85

IN THE DISTRICT OF COLUMBIA, 1917-1946											
YEAR	DEATHS UNDER 1 YR.	INFANT MORTAL- ITY **	BIRTHS	BIRTH RATE	DIA- RRHOEA DEATHS UNDER 5 YRS.	T. B. DEATHS	T. B. DEATH RATE	DIPH- THERIA DEATHS	TYPHOID DEATHS	HARTS DIS. OTHER	ORG. HRT. OTHER
1917	1031	87.8	11824	29.1	315	820	202.5	50	17	698	599
1918	1215	104.7	11575	27.0	331	798	185.6	82	15	629	633
1919	862	76.2	11297	25.7	295	637	144.8	50	9	504	529
1920	994	84.7	11734	28.3	244	540	130.4	62	8	507	492
1921	837	71.5	11705	27.5	210	446	104.9	44	12	417	510
1922	825	74.8	10993	25.4	167	428	99.1	73	12	346	640
1923	756	68.0	11110	25.3	133	406	92.5	34	11	340	727
1924	746	65.2	11449	25.7	132	392	87.9	39	12	399	729
1925	746	68.7	10852	24.0	129	378	83.4	42	5	343	850
1926	753	71.9	10460	22.7	128	421	91.5	21	7	331	948
1927	634	63.3	10010	21.5	82	387	82.9	62	6	266	1019
1928	626	63.8	9802	20.7	78	412	86.9	95	5	298	1002
1929	594	59.6	9975	20.7	52	441	91.8	96	5	258	1047
1930	512	52.3	9784	22.2	45	445	101.0	48	1	244	1005
1931	491	52.3	9506	21.4	36	412	92.4	16	2	224	980
1932	371	42.3	8746	19.4	16	360	80.0	2	4	242	958
1933	356	45.1	7897	17.6	18	388	85.8	1	2	228	1091
1934	342	45.2	7565	16.7	23	317	69.8	1	1	227	1082
1935	417	54.6	7638	16.8	24	316	69.4	1	0	201	1118
1936	332	45.9	7236	15.8	16	346	75.7	0	1	214	1162
1937	287	37.6	7459	16.7	32	301	65.8	1	0	168	1158
1938	310	39.1	7936	17.3	12	287	62.7	1	2	149	1201
1939	303	38.1	7950	17.3	20	277	60.3	1	4	154	1240
1940	300	35.1	8538	19.9	14	309	71.9	0	0	124	1360
1941	318	32.6	9765	22.8	13	274	63.9	0	0	222	1530
1942	352	29.3	12016	28.0	12	288	66.1	0	0	223	1756
1943	367	30.9	11856	26.9	15	294	66.8	1	0	276	1975
1944	375	34.7	10792	24.5	23	257	58.4	0	0	271	1744
1945	390	34.7	11254	25.4	10	247	55.8	0	2	274	1764
1946	416	30.9	13427	30.3	3	261	59.0	0	0	245	1663

OTHER MORTALITY TRENDS SINCE 1894

YEAR	POPULATION	CRUDE DEATHS	CRUDE DEATH RATE PER 1,000	RATES PER 100,000			INFANT MORTALITY RATES		
				CHOLERA FEVER	TYPHOID FEVER	DIPHTHERIA	UNDER 1 MO.	1 TO 12 MONTHS	UNDER 1 YR.
1894	203,923	4,543	22.28	33.8	16.7	-			
1895	215,725	4,615	21.37	16.2	23.2	20.2			
1896	225,000	4,716	20.96	7.6	20.9	20.4			
1897	230,070	4,010	17.43	23.5	14.3	50.6			
1898	235,000	4,303	18.30	6.4	17.4	20.6			
1899	240,070	3,537	18.90	14.2	25.0	20.7			
1900	246,070	5,006	20.34	22.4	20.3	20.1			
1901	250,000	4,806	19.22	9.2	22.8	21.2			
1902	255,000	4,943	19.38	18.0	18.4	21.2			
1903	266,000	4,923	18.50	26.7	23.7	25.1			
1904	272,000	5,378	19.77	44.1	14.7	20.1			
1905	283,239	5,025	17.74	15.9	14.1	38.8			
1906	297,000	5,551	19.14	11.7	17.2	34.1			
1907	307,000	5,724	19.08	13.7	23.0	21.7			
1908	305,000	5,207	17.07	29.2	11.5	21.5			
1909	311,000	5,529	17.77	22.5	12.5	20.1			
1910	347,469	5,764	16.64	11.2	12.7	20.9			
1911	352,000	5,337	15.16	6.0	10.5	20.0			
1912	370,000	5,423	14.65	3.0	7.0	24.4			
1913	380,000	5,562	14.63	6.9	7.2	28.0	38.8	54.2	93.0
1914	395,000	5,809	14.70	6.8	6.6	10.4	36.9	59.9	96.8
1915	375,000	5,382	14.30	1.6	2.9	10.4	10.4	44.9	45.3
1916	385,000	6,357	16.50	1.8	6.0	14.8	3.0	51.4	4.6
1917	405,000	6,205	15.30	0.7	4.2	10.1	1.3	44.9	17.8
1918	430,000	8,483	19.72	2.6	3.5	10.1	1.1	15.1	14.7
1919	440,000	5,534	12.57	2.7	2.0	10.1	1.1	4.1	74.2
1920	414,216	5,551	13.40	2.9	1.9	14.3	1.7	16.0	44.7
1921	425,000	4,774	11.24	5.9	2.8	10.1	1.1	5.1	7.5
1922	432,000	5,209	12.06	3.5	2.8	10.1	1.1	10.5	74.8
1923	439,700	5,221	11.67	1.1	2.5	7.7	1.0	10.7	18.0
1924	446,000	5,004	11.22	1.8	2.7	10.1	1.1	2.4	5.2
1925	453,000	5,310	11.67	2.0	1.1	9.3	1.1	1.4	10.7
1926	467,000	5,450	11.65	1.3	1.5	4.0	1.5	1.4	7.1
1927	467,070	5,086	10.90	2.6	1.3	10.1	1.1	1.4	10.7
1928	474,000	5,512	11.63	1.3	1.0	10.1	1.1	1.1	10.9
1929	480,000	5,632	11.74	0.8	0.6	10.1	1.1	1.4	10.6
1930	440,000	5,239	11.92	0.7	0.2	10.1	1.1	1.4	52.1
1931	445,000	5,073	11.40	2.0	4.5	10.1	1.0	1.6	5.5
1932	450,000	4,682	10.40	0.7	0.9	10.1	1.1	1.7	42.2
1933	452,000	4,930	10.91	0.9	0.5	10.2	1.1	1.7	46.1
1934	454,000	4,764	10.49	0.4	0.2	10.1	1.1	1.0	15.2
1935	455,000	4,996	10.56	0.2	0.0	10.1	1.1	1.7	10.6
1936	457,000	5,331	11.18	1.5	0.2	NONE	1.7	16.4	15.9
1937	458,000	5,161	11.00	0.2	0.9	10.2	1.1	1.7	17.5
1938	458,000	4,970	10.85	0.2	0.4	10.1	1.1	1.5	16.1
1939	459,000	4,855	10.58	0.9	0.9	10.2	1.1	1.5	16.1
1940	429,000	5,025	11.71	NONE	NONE	NONE	1.7	10.4	16.1
1941	429,000	5,127	11.62	NONE	NONE	NONE	1.1	9.5	12.6
1942	428,000	5,256	11.86	0.2	NONE	NONE	21.9	7.1	27.3
1943	440,000	5,702	12.55	0.2	NONE	0.2	11.4	9.4	17.9
1944	440,000	5,201	11.48	0.2	NONE	NONE	20.0	9.7	16.7
1945	443,070	5,292	11.60	0.2	0.4	NONE	20.7	12.7	34.7
1946	443,000	4,937	11.14	NONE	NONE	NONE	1.8	7.2	10.0

DEATHS BY AGE GROUPS 1916-1946

YEAR	TOTAL DEATHS	UNDER 1 YR.	1 AND UND 2	2 AND UND 5	TOTAL UND 5	5-14	15-24	25-44	45-64	65 & OVER
1916	6357	1026	392	405	1821	254	335	1197	1566	1184
1917	6205	1038	244	179	1461	237	340	1275	1637	1255
1918	8484	1215	433	434	2082	314	789	2308	1754	1245
1919	5534	862	190	486	1238	249	345	1204	1376	1122
1920	5551	994	253	192	1439	220	327	1041	1379	1145
1921	4776	837	134	134	1107	194	248	910	1256	1061
1922	5209	822	198	166	1186	232	268	925	1414	1184
1923	5221	756	163	136	1055	196	305	872	1503	1290
1924	5111	746	130	139	1015	199	268	975	1470	1184
1925	5447	746	132	144	1022	206	273	1018	1640	1288
1926	5606	753	187	158	1098	156	277	1015	1618	1442
1927	5296	636	109	112	857	210	277	974	1724	1254
1928	5735	626	156	186	968	245	304	1002	1794	1422
1929	5857	594	104	152	850	192	308	1162	1768	1577
1930	5447	512	83	119	714	188	327	1037	1788	1393
1931	5306	490	64	98	652	172	252	1025	1747	1458
1932	4850	371	41	73	485	128	228	890	1677	1442
1933	5128	356	68	96	520	141	215	914	1775	1563
1934	4921	342	54	54	450	117	192	824	1779	1559
1935	4996	417	46	60	523	117	190	864	1788	1514
1936	5331	332	45	45	422	116	208	841	1892	1832
1937	5256	287	51	61	400	115	202	812	1877	1850
1938	5116	310	29	45	384	86	179	751	1845	1871
1939	5005	303	23	24	350	97	168	704	1777	1909
1940	5207	300	26	33	359	55	168	703	1934	1988
1941	5127	318	30	34	382	62	138	639	1948	1958
1942	5256	352	25	36	413	50	151	682	1935	2025
1943	5702	367	24	44	435	66	148	660	2074	2313
1944	5201	375	24	29	428	67	115	618	1904	2071
1945	5292	390	24	31	445	75	124	564	1933	2151
1946	5078	416	14	31	461	51	112	561	1810	2083

"TOTAL DEATHS" INCLUDES ALL DEATHS IN NEWARK BOTH RESIDENT AND NON-RESIDENT AS WELL AS DEATHS OF NEWARKERS AT SOMERSET AND VERONA.

DEATHS AND DEATH RATES BY CAUSE AND COLOR 1945-1946

	TOTAL				NEGRO			
	1946		1945		1946		1945	
	RATE	DEATHS	RATE	DEATHS	RATE	DEATHS	RATE	DEATHS
INFANTILE PARALYSIS	0.9	4	1.6	7	-	-	-	-
TYPHOID FEVER	-	-	0.4	2	-	-	-	-
MEASLES	0.4	2	-	-	-	-	-	-
SCARLET FEVER	-	-	0.2	1	-	-	-	-
WHOOPING COUGH	0.2	1	0.2	1	2.0	1	-	-
DIPHTHERIA	-	-	-	-	-	-	-	-
INFLUENZA	0.9	4	1.6	7	2.0	1	2.0	1
FRIEDEN, LENING, (CER. SPIN.)	1.6	7	2.5	11	2.0	1	10.0	5
TUBERCULOSIS OF LUNGS	51.7	229	50.8	225	204.0	102	200.0	100
TUBERCULOSIS MENINGITIS	3.0	13	2.5	11	20.0	10	16.0	8
OTHER TUBERCULOSIS	4.3	19	2.5	11	20.0	10	14.0	7
CANCER - MALIGN. TUMOR	165.7	735	159.8	708	124.0	62	120.0	60
SIMPLE MENINGITIS	2.0	9	3.4	15	6.0	3	6.0	4
APPOXY - SFT. OF BRAIN	104.5	463	109.7	486	110.0	55	96.0	49
ORGANIC HEART DISEASE	375.4	1663	398.2	1764	284.0	142	358.0	179
PNEUMONIA, LOBAR	21.0	93	23.7	105	34.0	17	54.0	27
PNEUMONIA, BRONCHO	21.7	95	5.1	22	5.0	2	2.0	1
ESP. DISEASES	25.5	113	7.2	31	11.0	5	4.0	2
DISEASE OF STOMACH	4.3	19	7.2	31	8.0	4	4.0	2
DIARRHOEA (UNDER 5 YEARS)	0.7	3	0.7	3	-	-	2.0	1
APPENDICITIS & TYPHILITIS	4.3	19	7.2	31	11.0	5	11.0	5
NEURIA, INT. OBSTR.	8.1	36	7.2	31	12.0	6	14.0	7
CIRRHOSIS OF LIVER	11.5	51	1.0	4	1.0	0	1.0	0
RIGHTSIDS. - NEPHRITIS	55.3	241	1.0	4	11.0	5	1.0	0
DIS. OF WOMEN (NOT CANCER)	1.6	7	1.0	4	1.0	0	1.0	0
PUERPERAL SEPTICEMIA	0.4	2	1.0	4	1.0	0	1.0	0
OTHER PUERPERAL DISEASES	3.0	13	1.0	4	1.0	0	1.0	0
CONG. DEBILITY & EALF.	74.0	324	1.0	4	1.0	0	1.0	0
OLD AGE	3.0	13	1.0	4	1.0	0	1.0	0
ACCIDENTS	52.0	228	1.0	4	1.0	0	1.0	0
INF. INFANCY	6.0	26	1.0	4	1.0	0	1.0	0
ICIDE	9.0	39	1.0	4	1.0	0	1.0	0
ILL-DEFINED CAUSES	12.0	51	1.0	4	1.0	0	1.0	0
ALL OTHER CAUSES	116.0	496	1.0	4	1.0	0	1.0	0

TOTALS	5078	461	9.1	163	3.2	561	11.1	1810	35.6	2083	41.0
MEASLES	2	1	50.0	1	50.0	-	-	-	-	-	-
WHOOPING COUGH	1	1	100.0	-	-	-	-	-	-	-	-
DIARRHOEA DIS.	3	3	100.0	-	-	-	-	-	-	-	-
EARLY INFANCY	331	331	100.0	-	-	-	-	-	-	-	-
INFLUENZA	4	2	50.0	-	-	-	-	1	25.0	1	25.0
PNEUMONIA	189	49	25.9	4	2.1	25	13.2	56	29.6	5	21.0
BRONCHITIS	10	2	20.0	-	-	1	10.0	2	20.0	4	40.0
PULM. T. B.	229	-	-	31	13.5	96	41.9	87	38.0	5	6.0
ARTHRIC DIS.	245	3	1.2	5	2.0	43	17.6	92	37.6	0	0.0
CANCER	735	-	-	7	1.0	65	8.8	352	47.9	211	42.3
APPOXY	463	-	-	5	1.1	32	6.9	182	39.3	244	52.7
ORG. HRT. DIS.	1663	2	0.1	22	1.4	94	5.6	651	39.2	604	51.7
ACCIDENTS	234	20	8.5	21	9.0	31	13.2	65	27.8	97	4.5

DEATHS BY SPECIAL CAUSES - 1937 - 1946

	1946	1945	1944	1943	1942	1941	1940	1939	1938	1937
TOTAL -- ALL CAUSES	5078	5292	5201	5702	5256	5127	5207	5005	5116	5256
INFANTILE PARALYSIS	4	7	3	-	2	3	-	-	-	1
TYPHOID FEVER	-	2	-	-	-	-	-	4	2	-
TYPHOID FEVER "PARA"	-	-	-	2	-	-	-	-	-	-
MEASLES	2	-	1	1	4	1	5	-	-	16
SCARLET FEVER	-	1	1	1	1	-	-	4	1	1
DIPHTHERIA	-	-	-	1	-	-	1	1	1	1
WHOOPING COUGH	1	1	-	2	3	4	1	6	6	7
INFLUENZA	4	7	12	23	5	19	8	10	17	24
EPIDEM. MENINGITIS (CRSP)	7	11	17	27	5	1	1	1	2	8
OTHER EPIDEMIC DISEASES	2	-	-	-	-	-	1	-	1	-
TUBERCULOSIS OF LUNGS	229	225	237	266	261	235	277	252	253	266
TUBERCULOSIS MENINGITIS	13	11	4	7	11	13	11	6	9	17
OTHER TUBERCULOSIS	19	11	16	21	16	26	21	19	25	25
CANCER & MALIGN. TUMOR	735	708	708	655	601	660	634	631	630	633
SIMPLE MENINGITIS	9	15	22	17	25	13	14	16	20	22
APOPLEXY - SOFT, OF BRAIN	463	486	421	431	425	415	440	383	347	310
ORGANIC HEART DISEASE	1663	1764	1744	1975	1756	1530	1360	1240	1201	1158
BRONCHITIS	10	6	8	5	11	5	11	9	18	13
LOBAR PNEUMONIA	93	105	114	166	144	125	91	130	189	245
BRONCHO PNEUMONIA	96	111	120	162	102	119	103	101	123	184
OTHER RESPIRATORY DISEASES	113	81	68	134	184	167	142	124	92	124
DISEASES OF STOMACH	19	32	34	48	34	30	31	39	43	51
DIARRHOEA (UNDER 5 YRS)	3	10	23	15	12	13	14	20	12	32
APPENDICITIS & TYPHILITIS	19	29	25	31	34	45	68	61	82	77
HEPATA & INTEST. OBST.	36	44	62	75	67	50	59	57	51	60
CIRRHOSIS OF LIVER	51	49	48	40	34	47	37	36	42	42
BRIGHT'S DIS. & NEPHRITIS	245	274	271	276	223	222	124	154	149	168
DIS. OF WOMEN (NOT CANCER)	7	7	7	7	10	4	19	11	11	12
PUERPERAL SEPTICAEMIA	2	4	-	4	2	5	2	5	4	10
OTHER PUERPERAL DISEASES	14	14	9	14	20	21	27	25	19	12
CONG. DEBILITY & MALF.	331	285	278	257	262	243	225	203	213	170
OLD AGE	13	18	29	46	30	43	28	36	43	49
ACCIDENTS	234	271	270	304	271	235	258	226	268	343
HOMICIDES	28	13	18	22	22	19	21	23	21	37
SUICIDES	42	47	42	55	66	55	82	50	66	70
ILL-DEFINED	54	79	32	30	42	51	50	39	39	32
ALL OTHER CAUSES	517	564	557	582	571	708	1039	1083	1116	1064

CRUEL DEATH RATE (1000 POP) 11.1 11.6 11.5 12.6 11.9 11.6 11.7 10.6 10.9 11.0

TOTAL 201 STAT. YRS - WHITE AND COLORED

YEAR	DEATHS 1900-1919		DEATHS 1920-1939		DEATHS 1940-1946		MORTALITY RATE 1900-1919		MORTALITY RATE 1920-1939		MORTALITY RATE 1940-1946	
	WHT	COL	WHT	COL	WHT	COL	TOTAL	WHT	COL	TOTAL	WHT	COL
1900	405	47	293	299	251	155	221.1	171.1	722.0	92.2	62.0	387.5
1901	400	40	332	245	95	165	174.4	129.7	612.6	80.0	47.6	412.5
1902	412	40	303	230	227	154	167.5	124.5	575.0	85.8	55.1	385.0
1903	414	40	447	77	184	124	147.6	107.9	542.5	69.6	44.9	311.0
1904	414	40	43	220	189	124	143.7	104.8	540.0	69.5	45.5	310.0
1905	415	42	229	213	182	163	141.1	105.7	507.1	75.7	43.8	288.0
1906	415	43	185	181	187	112	125.5	92.8	432.5	65.8	45.0	280.4
1907	415	41	195	203	154	131	131.0	95.2	472.0	62.6	37.1	304.0
1908	415	44	350	79	155	117	116.3	84.3	406.8	60.3	37.3	265.9
1909	384	45	400	185	169	118	116.6	104.2	411.0	71.0	41.0	301.6
1910	384	45	398	210	154	119	142.7	103.6	466.6	63.9	40.1	264.4
1911	384	45	471	195	161	125	157.1	123.4	433.7	64.1	41.9	277.7
1912	392	46	464	231	177	117	160.2	118.3	481.2	66.8	45.1	243.7
1913	392	48	371	207	135	119	132.7	94.6	431.2	58.4	34.4	247.9
1914	393	50	326	85	111	115	111.7	82.9	330.0	55.8	33.0	230.0
1915	393	50	362	22	118	122	129.8	92.1	424.0	58.9	35.1	214.0

YEAR	TOTAL BIRTHS	NON-RESIDENT BIRTHS	HOSPITAL BIRTHS	HOME DELIVERIES BIRTHS	NO. DEAD AT BIRTH	% TOTAL BIRTHS MADE IN HOSP.	
1917	11,850	381	1,956	4,195	5,696	3	16.5%
1918	11,601	487	-	-	5,358	0	-
1919	11,315	554	-	-	5,148	0	-
1920	11,734	-	-	-	4,712	0	-
1921	11,705	-	-	-	4,470	0	-
1922	10,993	883	-	-	3,764	0	-
1923	11,111	-	-	-	3,552	0	-
1924	11,149	-	-	-	3,251	0	-
1925	10,852	1,258	4,845	3,208	2,799	0	14.4%
1926	10,460	1,214	5,003	2,955	2,502	0	17.8%
1927	10,042	1,246	4,995	2,709	2,338	0	5.7%
1928	9,802	1,431	5,390	2,419	1,993	0	6.0%
1929	9,965	1,822	5,805	2,436	1,724	0	18.1%
1930	9,824	1,977	6,517	1,814	1,493	0	11.3%
1931	9,506	2,137	6,824	1,491	1,191	0	13.4%
1932	8,782	1,885	6,538	1,291	953	0	17.4%
1933	7,897	1,793	6,195	986	716	0	17.4%
1934	7,565	1,738	5,858	1,082	625	0	17.4%
1935	7,638	1,812	6,076	1,047	515	0	17.4%
1936	7,236	1,737	6,025	778	433	0	17.4%
1937	7,659	1,956	6,682	603	374	0	17.4%
1938	7,936	2,076	7,106	546	283	1	17.4%
1939	7,950	2,180	7,315	401	234	0	17.4%
1940	8,538	2,514	7,952	401	185	0	17.4%
1941	9,765	3,162	9,282	325	150	0	17.4%
1942	12,016	4,020	11,479	376	161	0	17.4%
1943	11,856	3,978	11,230	432	194	0	17.4%
1944	10,792	3,632	10,306	330	156	0	17.4%
1945	11,254	3,916	10,867	272	115	0	17.4%
1946	13,427	4,695	13,094	225	108	0	17.5%

YEAR	WHITE MORT. RATE	COL. MORT. RATE	WHITE MORT. RATE *	COLORED MORT. RATE *	WHITE MORT. RATE	COL. MORT. RATE
1923	65.0	112.4	29.7	66.1	35.3	46.3
1924	60.1	129.5	29.2	79.1	30.9	50.4
1925	61.0	155.1	33.8	89.9	27.2	65.2
1926	66.6	130.4	33.2	73.8	33.4	56.6
1927	54.7	140.5	25.1	59.9	29.6	80.6
1928	54.8	137.0	25.4	58.3	29.4	78.7
1929	49.8	138.7	23.2	70.3	26.6	68.4
1930	46.0	102.7	21.2	50.0	24.8	52.7
1931	46.3	95.5	21.8	45.8	24.5	49.7
1932	37.3	82.0	14.2	36.9	23.1	45.1
1933	39.1	91.1	17.2	42.8	21.9	48.3
1934	38.8	94.3	14.5	44.3	24.3	50.0
1935	50.7	84.8	18.6	45.9	32.1	38.9
1936	39.8	89.5	14.6	45.3	25.2	44.2
1937	34.5	61.5	12.9	37.0	21.6	23.6
1938	35.7	62.2	12.0	32.1	23.8	30.1
1939	36.7	74.8	18.4	32.2	18.3	42.6
1940	35.8	70.9	12.6	23.0	23.2	47.9
1941	28.5	62.6	7.5	21.5	21.1	41.1
1942	26.3	55.3	5.9	20.9	20.4	34.5
1943	27.6	59.6	6.9	31.4	20.7	28.3
1944	31.6	57.3	8.2	20.4	23.3	37.0
1945	31.7	54.6	10.5	20.8	21.2	33.7
1946	28.1	54.5	6.1	15.7	21.7	38.9

* OVER ONE MONTH BUT UNDER ONE YEAR

DEATHS UNDER ONE YEAR BY CAUSES - 1917 - 1946

AGE	DIARRHEA & BRONCHITIS	PNEUMONIA	MENINGITIS	DIARRHOEA	OTHER CONTAG. DISEASES & PRENATAL	EARLY INF. CONG. DEB.	A.L. OTHERS	TOTAL
12	3	1	1	1	1	1	86	1035
13	4	1	1	1	1	1	112	1213
14	4	1	1	1	1	1	91	862
15	4	1	1	1	1	1	100	994
16	4	1	1	1	1	1	91	837
17	4	1	1	1	1	1	98	822
18	4	1	1	1	1	1	103	756
19	4	1	1	1	1	1	86	746
20	4	1	1	1	1	1	103	746
21	4	1	1	1	1	1	70	753
22	4	1	1	1	1	1	67	636
23	4	1	1	1	1	1	55	626
24	4	1	1	1	1	1	73	594
25	4	1	1	1	1	1	73	512
26	4	1	1	1	1	1	53	490
27	4	1	1	1	1	1	40	371
28	4	1	1	1	1	1	56	356
29	4	1	1	1	1	1	37	342
30	4	1	1	1	1	1	43	417
31	4	1	1	1	1	1	42	332
32	4	1	1	1	1	1	36	287
33	4	1	1	1	1	1	33	310
34	4	1	1	1	1	1	47	303
35	4	1	1	1	1	1	32	300
36	4	1	1	1	1	1	31	318
37	4	1	1	1	1	1	35	352
38	4	1	1	1	1	1	46	367
39	4	1	1	1	1	1	22	375
40	4	1	1	1	1	1	39	390
41	4	1	1	1	1	1	32	416

	TOTAL BIRTHS	% TOTAL COLORED	WIDOWS	% TOTAL DELIVERED BY WIDOWS	TOTAL UNDER 1 YEAR	INFANT RATES
1	57	11.4%	3	.6%	25	49.8
2	74	34.4%	3	1.4%	3	14.0
3	512	75.7%	5	.7%	30	44.4
4	30	41.1%	0	-	1	13.7
5	32	9.3%	10	.3%	11	32.1
6	71	18.0%	5	1.3%	17	43.0
7	138	50.7%	2	.7%	15	55.
8	41	4.3%	9	.9%	25	26.2
9	108	8.1%	9	.7%	44	33.1
10	57	13.2%	8	1.9%	6	14.0
11	41	7.8%	3	.6%	17	32.1
12	22	4.9%	17	3.8%	15	33.7
13	14	1.5%	5	.5%	20	30.3
14	70	1.1%	17	3.0%	18	31.6
15	87	27.7%	3	1.0%	8	25.5
16	59	7.7%	8	1.0%	28	36.7
17	76	1.6%	1	.02%	124	26.4
TOTAL	1595	11.1%	108	.8%	415	31.0
					+ 1	
					416	

* UNKNOWN

BIRTHS & DEATHS - BY WARD & COLOR 1946

WARD	POPULATION	DEATHS	DEATH RATE	BIRTHS	BIRTH RATE	DEATHS	
						UNDER 1 YR.	MORT. RATE
1	27,000	206	7.6	502	18.6	25	49.8
2	12,000	146	12.2	215	17.9	3	13.9
3	26,000	358	13.8	676	26.0	30	44.4
4	7,000	119	17.0	73	10.4	1	13.7
5	17,000	142	8.3	343	20.2	11	32.1
6	20,000	223	11.1	395	19.7	17	43.0
7	14,000	147	10.5	272	19.4	15	55.1
8	39,000	411	10.5	955	24.5	25	26.2
9		539	8.6	1326	21.1	44	33.1
10		127	6.3	423	21.4	6	14.0
11		246	9.9	529	18.2	17	32.1
12		176	8.4	445	21.2	15	33.7
13		477	8.2	924	15.9	28	30.3
14		271	9.7	570	18.4	18	31.6
15		126	9.7	314	24.1	8	25.5
16		409	8.9	762	16.6	28	36.7
17		824	-	4695	-	124	-
18		91	-	-	-	1	-
TOTAL	141,000	5078	11.1	13427	30.3	416	30.9

19		20	13.3	57	38.0	3	52.6
20		29	15.2	74	33.6	2	27.0
21		213	12.5	512	30.1	26	50.8
22		8	8.0	30	30.0	-	-
23		11	13.7	32	40.0	1	31.2
24		41	17.1	71	29.6	4	56.3
25		88	16.3	138	25.6	13	94.3
26		21	9.5	41	18.6	-	-
27		33	11.0	108	36.0	8	74.1
28		19	17.0	57	30.0	2	35.1
29		26	17.3	41	27.3	4	97.6
30		9	22.5	22	55.0	-	-
31		4	8.0	14	28.0	-	-
32		72	13.8	176	33.8	10	51.1
33		29	8.3	87	24.9	4	72.0
34		16	10.7	59	39.3	4	75.3
35		25	-	76	-	6	-
36		14	-	-	-	-	-
TOTAL		678	13.6	1595	30.1	87	54.5

PARIES CONTROL

RABIES PREVALENT DURING THE YEAR -- RABIES WAS EXCEPTIONALLY PREVALENT IN THE NEWARK AREA DURING THE YEAR. IN NEWARK ALONE 38 DOGS, OUT OF 91, EXAMINED AT OUR LABORATORY WERE PROVEN TO BE RABID. THE LABORATORY ALSO EXAMINED 66 DOGS FROM NEIGHBORING COMMUNITIES, OF WHICH 32 WERE POSITIVE. THE STATE CONTINUED THE STRICT QUARANTINE PROHIBITING ANY DOG FROM BEING AT LARGE EXCEPT SECURELY LEASHED IN CHARGE OF A RESPONSIBLE PERSON.

ALL "BITE CASES" ARE INVESTIGATED BY SANITARY INSPECTORS AND THE DOGS EXAMINED ON THE PREMISES. IF ON REINSPECTION, 10 DAYS LATER, THE ANIMAL IS STILL ALIVE AND WELLS, IT PROVES THAT THE ANIMAL WAS FREE FROM RABIES IN THE INFECTIOUS STAGE AT THE TIME OF BITING, AND THE INDIVIDUAL DOES NOT NEED PASTEUR TREATMENT. THE CITY DOG POUND, AND THE COLLECTION OF ANIMALS FOR THE CITY, DESTROYED 145 ANIMALS DURING THE YEAR AND HELD 158 FOR OBSERVATION.

 $\lambda = 4.27$

PIFFS INVESTIGATED	<u>2,473</u>	NEWARK DOG BRAINS EXAMINED . . .	91
INSPECTIONS	2,746	NEWARK DOG BRAINS POSITIVE . . .	34
REINSPECTIONS	<u>4,694</u>	PASTEUR TREATMENT GIVEN	22
TOTAL INSPECTIONS	2,440		

100 100 100 100 100 100

FUMIGATION-PEST CONTROL

JOHN F. LYNCH, CHIEF INSPECTOR, FUMIGATION

BY ORDINANCE ALL FUMIGATORS MUST BE LICENSED AFTER PASSING WRITTEN EXAMINATION. ALL FUMIGATIONS NEW, OR NEW TS AND ARE SUPERVISED BY SAFEGUARDING GARDENS. ALL FUMIGATIONS AND VAPOR CONDENSATION ARE SUPERVISED BY THE CHIEF AND ONE ASSISTANT.

INSECT AND RODENT CONTROL BY OUR ARMED FORCES DURING THE WAR, RESULTED IN 1 ARKE, 3 ARV NGD N. FE AND NATURAL. SEARCH, USE OF WHICH WAS CONCENTRATED INFER SECT. REPLY, BEING FROM THE FORM OF OF THE WAR AND INSECTICIDES AND NOCTURNAL. (C.R. D.D.T. IS N. ARA AND TO THE B.C. (B.B. (S.C.)), FIDRONYL, YOLCHEXANE, AND GAUVA BENZYL. (KRAHNOF (E) AND MANY OTHER NON-HISICAL CHEMICALS THAT WILL BE EMPLOYED BY THE BEST CONTROL OPERATOR IN NOGS, GRAYS AND DUTS.

THE FOLLOWING IS A SUMMARY OF THE ACTIVITIES OF THE DIVISION OF FISH AND WILDLIFE CONTROL FOR THE YEAR 1946.

INVESTIGATIONS, RODENT AND INSECTS	255
WRITTEN NOTICES SERVED	212
DWELLINGS - HYDROCYANIC ACID GAS	7
FACTORIES - HYDROCYANIC ACID GAS	5
TRUCKS - CHLOROPICRIN	22
FREIGHT CARS - HYDROCYANIC & METHYL BROMIDE	24
VAULT FUMIGATIONS - CHLOROPICRIN	26
TRUNKAGE SALES - FORMALIN	.66
TOTAL FUMIGATIONS	270

SEVERAL DEMONSTRATIONS ON FLY-CONTROL WERE HELD AT GARBAGE DISPOSAL AREA THIS PAST SUMMER, WITH TODD AND BUFFALO FOGGING MACHINES USING A 2% D.D.T. SOLUTION. TREATED AREAS REMAINED TOXIC ABOUT FIFTEEN DAYS. RODENT REPELLENTS AND TOXIC BAITS WERE ALSO USED IN THIS AREA IN COOPERATION WITH ELMERY HILLS, ASSISTANT BIOLOGIST, U. S. DEPARTMENT OF THE INTERIOR.

INDUSTRIAL HYG. & E. DIVISION

* LEWIS E. BOUTILLER, CHIEF INSPECTOR -- CHARLES E. MAGUIRE, ASST. CHIEF

THIS DIVISION, WITH A STAFF OF INSPECTORS, TWO NURSES AND INDUSTRIAL HYGIENE ENGINEERS, AND THE COOPERATION OF THE DEPARTMENT FEDERAL INVESTIGATOR, ENDEAVORS TO IMPROVE HEALTH CONDITIONS IN INDUSTRY. EVERY PLANT, LARGE OR SMALL, IS SURVEYED AND REGULARLY INSPECTED FOR SUCH RISK FACTORS AS LIGHT, HEAT, VENTILATION, SANITATION, TRAFFIC AND WORKING FACILITIES, AND FOR SPECIAL CONDITIONS WHICH MIGHT BE DANGEROUS AGAINST, DUE TO NATURE OF WORK OR MATERIALS HANDLED. TESTS ARE REGULARLY MADE OF ATMOSPHERE AND MATERIALS TO DETERMINE ANY TOXICITY OR POISONING HAZARD. OUR CHEST X-RAY PROGRAM IS CARRIED OUT BY COOPERATION WITH THE INDUSTRIAL CLINIC AN OCCASIONAL LEAN OF A STATE PORTABLE EQUIPMENT. WE HAD IN 1947 TO RECOVER A PORTABLE UNIT OF OUR OWN WHICH SHOULD MAKE IT POSSIBLE TO INCREASE ROUTINE CHEST X-RAYS TO OUR GOAL OF 100,000 EVERY YEAR. THE GREAT MAJORITY OF INSPECTOR VISITS AND ALL MEDICAL AND NURSING VISITS ARE SELF-INITIATED. GENERAL HEALTH EDUCATION METHODS THE NURSES EMPHASIZE THE IMPORTANCE OF INDUSTRIAL HEALTH AND SAFETY. REPRESENTATIVE AND FIELD PHYSICAL EXAMINATIONS, CHEST X-RAYING AND MONITORING OF WORKERS, RESPONSE BY INDUSTRY TO THESE EDUCATIONAL ACTIVITIES SHOWN BY CHEST X-RAYS OF WORKERS IN 9 PLANTS WERE TAKEN AS WELL AS BLOOD TESTS OF WORKERS IN 4 PLANTS. TWO INDUSTRIAL PLANTS ACQUIRED THE SERVICES OF A FULL-TIME NURSE, A PART-TIME PHYSICIAN, AND A DISPENSARY. EACH OF THESE CONCERNS NOW CARRY OUT A COMPLETE INDUSTRIAL HEALTH PROGRAM. SEVERAL PLANTS HAVING A MEDICAL DEPARTMENT BUT NOT HERETOFORE CARRYING OUT THE PRINCIPLES OF PREVENTIVE MEDICINE NOW INCLUDE A COMPLETE HEALTH PROGRAM.

INSPECTION ACTIVITY SUMMARY - 1947 - TOTAL VISITS 4,948

COMPLAINTS	530	WRITTEN NOT OBSERVED	38	OCCUPATIONAL DISEASES	3
ORIGINAL	8349	VERBAL	"	TYPE: DERMATITIS	3
REINVESTIGATIONS	212	TOTAL	"	NO. OF PLANTS	3
TOTAL INSPECTIONS	1095	INDUSTRIAL HYG. SURVEY	445	WEIGHINGS HELD	60
ABATEMENTS	551	RECOMMENDATIONS MADE	37	LAH SUITS INSTITUTED	10
VIOLATIONS FOUND	953	COMPLIED WITH	213	PENALTIES-VIOLATIONS	1

MEDICAL AND NURSING ACTIVITIES - (TOTAL VISITS 677)

INDUSTRIAL MED. SURV.	4	NO. PLANTS VISITED	375	REQUEST VISITS	43
RECOMMENDATIONS	677	INDUSTRIAL NURS. SURV.	10	RECOMMENDATIONS GIVEN	677
OCCUPATIONAL DISEASES	3	FOLLOW-UP VISITS	259	TEMPERATURE CONC. (MEAN)	10460

ENGINEERING AND LABORATORY ACTIVITIES - (TOTAL VISITS 881)

ENGINEERING SURVEYS	681	TWO-SPHERIC SAMPLES COLLECTED	18
INDUSTRIAL HYGIENE SURVEYS	13	TOTAL HAZARDS FOUND	18
RECOMMENDATIONS GIVEN	82	TYPE: EYE (NO GOGGLES)	8
FIELD DETERMINATIONS	45	INSUFFICIENT VENTILATION	8
TYPE: CARBONMONOXIDE	5	LEAD	1
AIR VELOCITIES	40	INSUFF. PROTECTION IN	
LABORATORY ANALYSES	13	ELEC. ARC WELDING	1
TYPE: TRICHLOROETHYLENE	5	ENG. RECOMMENDATION	30
LEAD	3	TYPE: LOCAL EXHAUST	
DUST COUNTS	5	VENTILATION	15
VISITS WITH INSPECTORS	791	ENCLOSING PROCESSES	10
		ISOLATING PROCESSES	5

REPORT OF MASS. CHEST X-RAY PROGRAM

NO. OF CHEST X-RAY	3775	NO. OF X-RAYS (4X5)	3792
ADDITIONAL X-RAYS OF 310 INDIVIDUALS	395	(70MM)	323
TOTAL	4150	(14X17)	35
		TOTAL	4150

FINDINGS

MINIMAL T.B.	26	DEFINITELY ACTIVE	13
MOD. ADVANCED T.B.	11	QUESTIONABLY	16
FAR " "	2	PROBABLY ARRESTED	10
TOTAL	39		39
CARDIO-VASCULAR CONDITIONS FOUND	215		
IN ADDITION TO ABOVE	24	HAD SUSPICIOUS T.B. CONDITION	
	7	CARDIO-VASCULAR CONDITION	
NOTE: 69 INDIVIDUALS REFERRED	2	TUMOR MASS	
FOR FOLLOW-UP.	1	SUSPECTED PNEUMOCONIOSIS	

* (DIED AUG. 3, 1946 AND WAS SUCCEEDED BY ASST. CHIEF MAGUIRE)

J. J. HUGHES, CHIEF VETERINARIAN

THIS DIVISION IS RESPONSIBLE FOR THE INSPECTIONS OF ALL SLAUGHTER HOUSES, BUTCHER SHOPS, POLISHA KITCHENS, POULTRY MARKETS, FISH MARKETS AND OTHER ESTABLISHMENTS WHERE MEAT, POULTRY AND FISH ARE HANDLED AND SOLD. INSPECTIONS ALSO INCLUDE MEAT TRUCKS AND POULTRY AND MEAT FLIGHT CARS. A STAFF OF VETERINARIANS AND TRAINED MEAT INSPECTORS ARE RESPONSIBLE FOR CARRYING OUT THESE DUTIES.

ALL MEATS OFFERED FOR SALE IN NEWARK MUST BE SLAUGHTERED UNDER THE SUPERVISION OF EITHER THE FEDERAL GOVERNMENT, OUR OWN VETERINARIANS, OR LOCAL VETERINARIANS OF OUTSIDE COMMUNITIES, WHERE AN APPROVED SUPERVISION IS MAINTAINED. THE STAFF OF INSPECTORS FROM THIS DIVISION ALSO MAINTAINS A RIGID INSPECTION OF ALL MEATS, POULTRY AND FISH DELIVERED TO CITY INSTITUTIONS.

IRMS AND ANIMALS OFFERED FOR SALE IN LOCAL PET SHOPS ARE ALSO PERIODICALLY INSPECTED BY MEN FROM THIS DIVISION; AS SUCH LIVESTOCK MAY BE A POTENTIAL SOURCE OF CERTAIN ANIMAL DISEASES TRANSMISSIBLE TO HUMANS.

URING 1946 MORE THAN 177,000 CARCASSES OF CATTLE, CALVES, SHEEP, HOGS AND GOATS WERE INSPECTED EITHER IN ABATTOIRS OR AT LOCAL WHOLESALE ESTABLISHMENTS. CONDEMNATIONS DURING THE YEAR INCLUDED 22 ENTIRE CARCASSES, 7,751 PARTS OF CARCASSES, 85,191 LBS. OF POULTRY, AND 40,993 LBS. OF MISCELLANEOUS MEATS, FISH AND PROVISIONS.

	NO.	INSPECTIONS		NO.	INSPECTIONS
BUTCHER SHOPS - - - - -	635	16,408	ABATTOIRS - - - - -	5	525
FISH STORES - - - - -	87	2,155	CITY INSTITUTIONS - - -	3	491
POLISHA PLANTS - - - - -	50	23,480	WHOLESALE REEF HOUSES -	46	3,463
POULTRY SLAUGHTER HOUSES -	75	2,549	WHOLESALE FISH HOUSES -	10	668
PUBLIC MARKETS - - - - -	42	1,050	" LIVE POULTRY " - - -	11	2,250
REFRIGERATION PLANTS - - -	1	60	HORSE MEAT PLANTS - - -	3	425
PET SHOPS - - - - -	13	448			

DIVISION OF SANITARY ENGINEERING

CHAPMAN, L. C. JONES, CHIEF ENGINEER D. J. H. MCADAM, ASST. CHIEF INSPECTOR

PLUMBING PERMITS INCREASED DUE TO SOMEWHAT MORE AVAILABLE MATERIAL, ALTHOUGH THERE WAS STILL A NEED FOR MORE WORKING AND MORE MATERIAL. THIS DIVISION MUST CO-OPERATE WITH OTHER DIVISIONS WHERE PLUMBING IS INVOLVED.

	1932	1940	1941	1942	1943	1944	1945	1946
PLANS APPROVED - NEW SYSTEMS - - - -	189	206	160	135	142	45	130	181
PLANS APPROVED - OLD SYSTEMS - - - -	1194	1157	1001	677	562	696	696	1103
SEWER INSPECTIONS - - - - -	263	294	186	121	128	126	127	185
PLUMBING INSPECTIONS - - - - -	4694	3777	2510	2243	2190	2165	2352	2910
SPECIAL INSPECTIONS - - - - -	3640	4966	4713	6628	6732	11029	12718	13365
FINAL PLUMBING INSPECTIONS - - - - -	1260	1315	1108	1106	726	763	812	1110
WATER TESTS - - - - -	431	470	379	194	51	26	108	28
SMOKE TESTS - - - - -	51	75	89	35	48	3	4	5
COMPLAINTS RECEIVED - - - - -	593	490	484	531	583	1785	3251	2932
VIOLATIONS NOTICES SERVED - - - - -	311	269	194	244	205	428	485	574
NOTICES COMPLIED WITH - - - - -	246	257	270	210	175	372	421	542
NUISANCES ABATED - - - - -						1035	2170	2487
LAW SUITS INSTITUTED - - - - -	71	66	28	27	44	8	17	30
MASTER PLUMBERS LICENSE ISSUED - -	436	498	424	419	401	396	384	412
CROSS CONNECTIONS DISCONTINUED - -	11	13	47	38	12	3	1	22
WATER SAMPLES COLLECTED - - - - -	1055	955	1363	1231	1138	1187	1169	600
DANCE HALLS INSPECTED - - - - -			333	332	282	282	133	166

COMMUNICABLE DISEASE DIVISION

DR. J. H. GARDAM, MEDICAL DIRECTOR -- WILLIAM S. JENNINGS, CHIEF INSPECTOR

THE COMMUNICABLE DISEASE DIVISION IS RESPONSIBLE FOR CONTROL AND PREVENTING THE SPREAD OF CONTAGIOUS AND INFECTIOUS DISEASES OTHER THAN VENEREAL AND TUBERCULOSIS WHERE WE HAVE SPECIAL DIVISIONS. CHILDHOOD CONTAGION PREVALENCY DURING THE YEAR WAS QUITE NORMAL WITH THE EXCEPT OF MEASLES, OF WHICH WE HAD THE MOST WIDE-SPREAD EPIDEMIC ON RECORD. THERE WERE 11,920 CASES OF THIS DISEASE, AND 8,000 OF THE CASES OCCURRED IN THE TWO MONTHS MARCH AND APRIL. FORTUNATELY, THE DISEASE CONTINUED ITS LOW FATALITY RATE OF RECENT YEARS WITH ONLY TWO DEATHS. SOME 30 YEARS AGO, THIS NUMBER OF CASES WOULD HAVE RESULTED IN APPROXIMATELY 150 DEATHS. FIELD WORK IN THIS DIVISION REQUIRED 36,445 VISITS DURING THE YEAR.

THE FOUR DIPHTHERIA CASES WERE THE FIRST TO DEVELOP AMONG CHILDREN WHO HAD BEEN IMMUNIZED MORE THAN FIVE YEARS PREVIOUSLY, AND THE IMMUNITY HAD NATURALLY WORN OFF. DURING THE YEAR THE DEPARTMENT STARTED A CAMPAIGN FOR THE RE-IMMUNIZATION OF ALL CHILDREN WITH A SMALL BOOSTER DOSE OVER THREE OR FOUR YEARS, AND PARTICULARLY CHILDREN ENTERING SCHOOL PRACTICALLY ALL OF WHOM HAD BEEN IMMUNIZED AS BABIES.

AS ISOLATION OF CONTAGIONS IS UNDESIRABLE IN GENERAL HOSPITALS, WE ARE FORTUNATE IN HAVING A MODERN, PROPERLY EQUIPPED ISOLATION HOSPITAL PROVIDED BY THE COUNTY, WHICH CARES FOR ALL CASES WHERE HOSPITALIZATION IS ADVISABLE. DURING THE YEAR 1,553 NEWARK CASES OF CONTAGION WERE TREATED AT THE COUNTY ISOLATION HOSPITAL, WHICH GIVES US COMPLETE AND WHOLE-HEARTED COOPERATION AT ALL TIMES.

OUR PROGRAM FOR IMMUNIZATION OF PRE-SCHOOL CHILDREN AGAINST DIPHTHERIA AND WHOOPING COUGH CONTINUED WITH SUCH SUCCESS THAT WE ARE ABLE TO MAINTAIN OUR ALMOST COMPLETE PROTECTION AGAINST DIPHTHERIA AND TO INCREASE THE PROPORTION OF CHILDREN PROTECTED AGAINST WHOOPING COUGH. THIS IS GREATLY AIDED BY THE USE OF MATERIAL COMBINED FOR BOTH DIPHTHERIA AND WHOOPING COUGH. OUR PROCEDURE IN THE BABY STATIONS IS TO GIVE THREE COMBINED INJECTIONS ONE MONTH APART AND ON THE THIRD VISIT TO ALSO VACCINATE FOR SMALLPOX, THUS IN THREE VISITS A CHILD GETS PROTECTION AGAINST THREE DISEASES. THE INJECTION IS 1 CC ALBUM DIPHTHERIA TOXOID AND 0.5 CC KILLER PERTUSSIS BACILLI. DURING THE YEAR, 2,451 CHILDREN WERE IMMUNIZED AGAINST DIPHTHERIA ALONE, AND 143 FOR WHOOPING COUGH ALONE. ALL OF THESE WERE BY PRIVATE PHYSICIANS WHO ALSO IMMUNIZED 3,486 WITH COMBINED MATERIAL. WHEN THE 3,339 CHILDREN WERE GIVEN SIMULTANEOUS PROTECTION FOR BOTH DISEASES AT HEALTH CLINICS AND THE 3,486 BY PRIVATE PHYSICIANS ARE ADDED TO THE NUMBER TREATED FOR EACH DISEASE SEPARATELY, WE FIND THAT 8,254 WERE PROTECTED AGAINST WHOOPING COUGH AND 9,276 FOR DIPHTHERIA. THERE WERE 6,993 PRE-SCHOOL CHILDREN VACCINATED FOR SMALLPOX. WE ARE PLEASED TO REPORT THAT PRIVATE PHYSICIANS ARE ACTIVELY CO-OPERATING IN THIS EFFORT AND DURING THE YEAR, MADE 9,841 IMMUNIZATIONS AND VACCINATIONS COMPARED WITH 1,895 AT HEALTH CLINICS. APPROXIMATELY 30,000 CHILDREN HAVE BEEN INJECTED IN THE PAST THREE YEARS WITH WHOOPING COUGH MATERIAL AND IT IS REASONABLE TO ESTIMATE THAT 50% OF OUR PRE-SCHOOL POPULATION HAS BEEN SO TREATED. DURING THE YEAR, 253 PATIENTS WERE BROUGHT IN FOR HEARING FOR DELAY IN IMMUNIZATION. ALTHOUGH NEW-BORN BABIES HAVE CONSIDERABLE RESISTANCE TO SUCH DISEASES AS MEASLES, DIPHTHERIA AND SCARLET FEVER LASTING FOR A FEW MONTHS AFTER BIRTH, THIS IS NOT TRUE OF WHOOPING COUGH. THE DEPARTMENT IS CONSIDERING EXPANDING OUR WHOOPING COUGH EFFORTS TO INCLUDE IMMUNIZATION OF EXPECTANT MOTHERS, AS SOME ENCOURAGING RESEARCH HAS INDICATED THAT SUCH IMMUNIZATION INCREASES CIRCULATING ANTIBODIES IN THE BLOOD OF NEW-BORN.

MONTHLY REPORT	1943	1944	1945	1946		1943	1944	1945	1946
• DIPHTHERIA	4	1	NONE	4	CHICKENPOX	484	3752	3439	1903
• SCARLET FEVER	401	642	604	496	• MUMPS	3094	2384	358	1263
• TYPHOID FEVER	8	3	18	2	• ERYSIPELAS	49	62	53	53
• PARA TYPHOID	0	0	1	2	• VINCENTS ANGINA	428	1173	1568	1207
• TUBERCULOSIS	705	585	495	575	• OPHTHALMIA NEON.	61	47	68	44
• UNDULANT FEVER	3	1	5	0	• PUERPERAL FEVER	2	4	1	1
• TRICHINOSIS	5	2	8	5	• DYSENTERY	0	2	2	0
• LOBAR PNEUMONIA	1145	707	732	606	• TETANUS	0	2	0	2
• BRONCHITIS	739	567	545	623	• INFLUENZA	194	75	109	57
• EPIDEMIC MENING.	136	118	52	32	• MALARIA	0	56	86	46
• INFANTILE PARALYSIS	13	29	50	19					
• WHOOPING COUGH	1088	294	765	089	• PLACARDED, TYPHOID FEVER AND INFANTILE PARALYSIS INVARIABLY HOSPITALIZED.				
• MEASLES	4987	1142	191	392	• WHOOPING COUGH - ARM BANDS ON PATIENTS.				
• GERMAN MEASLES	9113	489	263	1583	• ALL MALARIA CASES WERE IN DISCHARGED SOLDIERS.				

FOOD & DRUG DIVISION

JOSEPH F. CONNOLLY, CHIEF INSPECTOR -- DAVID E. MORGAN, ASST. CHIEF INSPECTOR

THIS DIVISION SUPERVISES THE FOOD HANDLING AND QUALITY IN EVERY FOOD ESTABLISHMENT IN THE CITY OTHER THAN MEAT STORES AND PLANTS, WHICH ARE UNDER THE MEAT INSPECTOR BUREAU. IN ADDITION TO A STAFF OF CITY DISTRICT INSPECTORS WE HAVE SEVERAL COUNTRY MILK INSPECTORS WHO CHECK CREAMERIES, BOTTLING, PASTEURIZING AND RECEIVING STATIONS, AND ONE INSPECTOR WHO TAKES MILK SAMPLES IN THE CITY.

AS THE HAZARD OF FOOD INFECTION THROUGH CARELESSNESS IN PUBLIC KITCHENS IS WITH US, THE CITY DISTRICT INSPECTORS ARE ALWAYS ON THE LOOKOUT FOR VIOLATIONS OF THE HEALTH LAWS AND PLACE PREPARING FOOD FOR IMMEDIATE CONSUMPTION. A SURVEY WAS ALSO CARRIED OUT TO LOCATE MANY FOOD ESTABLISHMENTS WHO HAD BEEN STARTED DURING THE WAR AND OF WHOM IT WILL BE NECESSARY TO REQUIRE THAT THEY ARE AS YET REQUIRED TO HAVE LICENSES.

THE PROGRAM HAS CONTINUED OF TAKING SWAB TESTS OF DRINKING GLASSES AND UTENSILS FOR BACTERIOLOGICAL EXAMINATIONS, ESPECIALLY IN TAVERNS AND BEER FOUNTAINS, AND THE SWAB TESTS IN PUBLIC PLACES HAVE BEEN A SUCCESSFUL MEANS OF ENFORCEMENT IN THE UTILIZATION OF THESE ITEMS. DURING THE YEAR SPECIAL INVESTIGATIONS WERE CARRIED OUT TO ABATE HIDE-OUTS, BOTTLES, AND IN THE FURNISHING OF SPECIAL TESTS WHICH WERE CONDUCTED. THE RESULTS OF AN ANALYSIS OF THE SWAB TESTS OF A PUBLIC PLACE, AVERAGE OF WHICH MANY VARIATIONS WERE OBTAINED, AS WELL AS A SACCHARINE WHICH WAS IN DEMAND AT A SUGAR SHOP AT THE NEW SCAP FOUNTAIN. AMONG THESE LATTER TWO IT WAS THE QUALITY WAS FOUND ENTIRELY SATISFACTORY.

CONDEMNATIONS OF FOOD STUFFS INCLUDED PRACTICALLY EVERY KIND OF FOOD OR BEVERAGE FOR HUMANS OR FOR ANIMALS.

PRINCIPAL CITY FOOD AND DRUG INSPECTIONS

TYPES OF FOOD ESTABLISHMENTS	1946		1946
RESTAURANTS, DINING ROOMS, ETC.	4424	ICE CREAM-MFG. PLANTS - NEWARK	0
CAFES-TAVERNS	2630	" " MFG. PLANTS-OUT OF CITY	44
BAKERIES-MFG. PLANTS	361	NON-ALCOHOLIC BEV. PLANTS-NEWARK	86
" RETAIL STORES	364	" " " " OUT OF CITY	6
" " " " " " " " " " " "	3	MISCELL. WHOLESALE & RETAIL MFG.	503
CANDY-RETAIL STORES	1605	MISCELLANEOUS	303
GROCERIES-RETAIL STORES	3778	SPECIAL INVESTIGATIONS	3007
PRODUCE-RETAIL STORES	525		
DRUGS-RETAIL STORES	603	TOTAL INSPECTIONS	18754

GLASS SWAB SAMPLES FROM TAVERNS FOR BACTERIOLOGICAL EXAMINATIONS

(WORK STARTED IN 1942)	1942		1946	
	NO.	%	NO.	%
NO. TAVERNS SAMPLED	996		357	
BACTERIAL SAMPLES TAKEN	1375		792	
STERILE	399	29	287	36
COUNTS 1 TO 1,000	335	24	173	22
" 1,001 TO 100,000	538	39	290	37
" OVER 100,000	103	8	42	5
SAMPLES SATISFACTORY	1272	93	750	95
COLON SAMPLES TAKEN	1375		792	
STERILE	916	67	546	70
COUNTS 1 TO 50	209	15	113	14
" OVER 50	250	18	133	16
AVERAGE COUNT	79		83	
SAMPLES SATISFACTORY	1125	82	659	83

FOOD & DRUG DIVISION - (CONTINUED)

MILK & DAIRY CONTROL - MORE THAN 3000 SAMPLES WERE TAKEN FOR CHEMICAL AND BACTERIOLOGICAL ANALYSES.

RECTIONS REPORT

	<u>INSP.</u>	<u>RE-INSP.</u>	<u>TOTAL</u>	<u>EXCLUDED</u>
PASTEURIZING PLANTS --	163	37	200	
RECEIVING PLANTS --	145	28	173	8
DAIRIES --	8511	481	8999	288
MILK CONDENSED -- 23,710 QTS.				

MILK SAMPLING

<u>GRADES OF MILK</u>	<u>NO. OF SAMPLES</u>	<u>AVE. BACT. PER C.C.</u>	<u>% BUTTER-FAT</u>	<u>% TOTAL SOLIDS</u>
CERTIFIED RAW --	15	4,300	3.30	13.01
CERTIFIED PASTEURIZED	6	1,570	3.86	13.34
PREMIUM --	662	18,800	4.10	13.09
PASTEURIZED --	1,116	25,800	3.66	12.50
GRAND AVERAGE --	1,799	23,000	3.81	12.72

DAILY MILK CONSUMPTION

(POPULATION 443,000)

DAILY MILK CONSUMPTION -- 299,384 QTS.

PER CAPITA MILK CONSUMPTION -- .925 PTS. PER DAY

OCCUPATIONAL CLINIC

DR. WILLIAM T. RUMAGE, DIRECTOR

BY LOCAL ORDINANCE, ALL FOOD HANDLERS AND DOMESTICS MUST BE PHYSICALLY EXAMINED AND RECEIVE HEALTH CARDS EVERY SIX MONTHS. THE EXAMINATION INCLUDES THE SLOTTED TEST FOR SYPHILIS, TWICE YEARLY FOR DOMESTICS AND ONCE YEARLY FOR FOOD HANDLERS, AS WELL AS A 4"X5" X-RAY ANNUALLY FOR FOURCHIMNELERS AND BIENI-ANNUALLY FOR DOMESTICS. VINCENT ANGINA SMEARS ARE TAKEN WHERE ABNORMAL MOUTH SYMPTOMS ARE PRESENT.

DURING THE YEAR 32,218 FOOD HANDLERS AND 2,241 DOMESTICS RECEIVED HEALTH CARDS. OF THESE, 28,585 FOOD HANDLERS AND 2,158 DOMESTICS WERE EXAMINED HERE AT OUR CLINIC. THE OTHER 3,428 WERE EXAMINED BY PRIVATE PHYSICIANS.

THIS PROGRAM HAS TWO MAIN FUNCTIONS. THE ONE IS TO SERVE AS A CASE FINDING PROGRAM FOR TUBERCULOSIS AND VENEREAL DISEASE AND PLACING CASES THUS FOUND AND OFTEN UNSUSPECTED, UNDER TREATMENT. IN ADDITION TO THIS, THERE IS NO QUESTION BUT THAT THE PROGRAM INFORMS THE FOOD HANDLERS WITH THE HAZARDS OF DISEASE SPREAD AND THE VITAL NEED OF PERSONAL HYGIENE.

DURING THE YEAR 308 FOOD HANDLERS AND 131 DOMESTICS WERE EXCLUDED, 45 FOR GONORRHOEA; 334 FOR SYPHILIS, 26 FOR TUBERCULOSIS AND 24 FOR SKIN CONDITIONS. STATISTICALLY ALL OF THE SYPHILIS CASES WERE GIVEN TEMPORARY CARDS BY STARTING AND CONTINUING TREATMENT, THEIR CONFINEMENT NOT BEING NECESSARY. THE SKIN AND GONORRHOEA CASES WERE EXCLUDED UNTIL CURED. AMONG 300 SMEARS WHERE NO OTHER SUSPICIOUS CONDITIONS, 1100 AND FOUR TUBERCULOSIS FOR VINCENTS ANGINA ALL WERE REQUIRED TO UNDERGO TREATMENT.

THIS CLINIC COOPERATES WITH THE INDUSTRIAL HYGIENE DIVISION BY X-RAYING AND BLOOD TESTING GROUPS OF EMPLOYEES REFERRED BY THAT DIVISION.

CITY DISPENSARY

ELVAH RYAN, R.N., SUPERVISOR OF NURSES - DONALD STEVEN, CHIEF PHARMACIST

THE CITY DISPENSARY PROVIDES CLINIC TREATMENT FOR MEDICALLY INDIGENT. HOME MEDICAL CARE IS PROVIDED AND PAID FOR BY THE RELIEF DEPARTMENT FOR PATIENTS UNABLE TO RELIEF AND BY THE HEALTH DEPARTMENT FOR THOSE NOT ON RELIEF BUT UNABLE TO PAY. THE PATIENT IS GIVEN FREE CHOICE OF PHYSICIAN. CLINIC TREATMENTS SHOWED A MARKED INCREASE IN 1946.

A TRAINED NUTRITIONIST HAS BEEN ADDED TO THE STAFF OF THE CITY DISPENSARY. HER WORK INCLUDES COOPERATION WITH THE EXECUTIVE DIVISION IN OUR EDUCATIONAL WORK TO INCREASE PUBLIC KNOWLEDGE CONCERNING PROPER BALANCED DIET. VISITS ARE MADE TO ALL THE PAROCHIAL SCHOOLS AND BABY-KEEPER STATIONS TO COOPERATE WITH DEPARTMENT NURSES IN LECTURING TO MOTHERS AND SCHOOL CHILDREN ON NUTRITION. THIS NUTRITIONIST ALSO AIDS PATIENTS IN THE CHOICE OF FOODS AND OTHER SPECIAL DIETARIES IN ORDERING INDIVIDUAL DIETS. SHE COOPERATES WITH THE INDUSTRIAL HYGIENE DIVISION IN THEIR CAMPAIGN FOR BETTER NUTRITION AMONG INDUSTRIAL GROUPS AND CAETERAS. COOPERATION WAS EXTENDED BY FREQUENT VISITS DURING THE YEAR TO THE ALMS HOUSE TO INSURE BEST POSSIBLE ORDERING, PREPARATION AND SERVING OF FOOD FOR THE AGED.

THE DEPARTMENT HAS TWO MEDICAL SOCIAL WORKERS. THE ONE MAJORS IN INVESTIGATION OF ABILITY TO PAY BY DISPENSARY PATIENTS AND HANDLING SOCIAL PROBLEMS IN THAT GROUP. DURING THE YEAR, 900 APPEALS WERE FOR FREE DISPENSARY TREATMENT WERE SUBMITTED AS ABLE TO PAY AND WERE BILLED FOR ANY TREATMENTS ALREADY GIVEN. THE OTHER IS STATIONED IN THE CHILD HYGIENE DIVISION TO ASSIST WORKERS IN SUCH DIVISIONS AS TUBERCULOSIS, BROCHING CHOCOL, CHILD HYGIENE, SANITARY AND CONTAGIOUS DISEASE IN THE HANDLING OF SOCIAL PROBLEMS COMING TO THEIR ATTENTION AFFECTING HEALTH.

THE DISPENSARY PHARMACY PROVIDED 28,334 FREE PRESCRIPTIONS FOR CLINIC PATIENTS AND HOME FREE MEDICAL CALL PATIENTS. IT ALSO HANDLES ALL FREE BIOLOGICALS AND IMMUNIZATION MATERIAL FOR CLINICS, FOR OTHER HEALTH DIVISIONS OR FOR PRIVATE PHYSICIANS INCLUDING 7,545 VACCINE DOSES, 433 PACKAGES OF DYPHTHERIA TOXOID, 339 PACKAGES OF HOOFING COUGH VACCINE, 92 PACKAGES OF VACCINE HOOFING COUGH & DYPHTHERIA MATERIAL, 5,148 PACKAGES OF FRANKLIN TUBERCULIN AND 43 MARSHALL RUBBER SERUM. MOST OF THIS MATERIAL IS SUPPLIED TO US FREE BY THE STATE HEALTH DEPARTMENT. DUE TO BARTING CONDITIONS, FREE COD LIVER OIL, SCORPION INBATED, HAS REPLACED BY VITAMIN REPARATIONS. THE DISPENSARY X-RAY LABORATORY MAKES FILMS FOR CLINIC PATIENTS BUT THE RISK OF ITS X-RAY WORK IS FOR THE CAPTAINING PROGRAM OF THE I.R. DIVISION SUCH AS THE EXAMINATION OF FOOD HANDLERS AND DOMESTICS.

CLINIC TREATMENTS	1944	1945	1946		1944	1945	1946
ADULTS	493	175	4708	NEURON & OTHER INJEC.	842	601	370
CHILDREN	705	443	811	RENALYSIS	1346	347	1318
SURGICAL	169	1219	1457	RESECTION	40	0	239
GYNAECOLOGICAL	1087	19	240	TUMOR, ANEMIA & ULCERS	-	-	111
SKIN	447	964	2893	EMPLOYED AGNOSTIC CLINIC	1317	1325	3975
RECTAL & G. I.	844	1147	1202	TOTAL TREATMENTS	24849	2354	36346
ORTHOPEDIC	328	093	1138	DIFF. PATIENTS TREATED	6467	6253	7496
DENTAL	8613	7602	11069 *	PRESCRIPTIONS	23136	22184	28334
NEURO-PSYCHIATRIC	606	546	836	X-RAYS DENTAL FILM	2115	2262	2073
ESSEX CO. HOSPITAL	204	182	141	" CHEST FILM 4X5	10527	2554	3064
W. D. DISEASES	949	671	998	" " 14X17	2463	2106	2676
MYOLOGIC	507	384	596	" DISC. CLINIC	861	1078	1218
VARIKOSE VEINS	528	467	560	DOC. CALL PD BY HEALTHD.	405	137	2906
W. N. N. ON	159	115	418	" " " RELIEF D.	511	554	058
ALPINE LAMP	153	74	199	" " " FOR CONTAG. DIS.	-	-	1058
MASSAGE & ELEC. THER.	901	767	1397				
TRINIA	11	0	0				
TESTS-IMMUNIZATIONS	419	535	896	* INCLUDES 3,021 VISITS TO THREE NEIGHBORHOOD DENTAL CLINICS.			

DIVISION OF CHILD HYGIENE

DR. JULIUS LEVY, DIRECTOR DR. HARRY SILVER, ASSISTANT DIRECTOR
MRS. MEREDITH ENRICH, SUPERVISING NURSE

THE CRUDE INFANT MORTALITY RATE FOR 1946 IS 31.0, WHICH IS A LITTLE MORE THAN 10% LESS THAN IT WAS IN THE PREVIOUS YEAR WHEN IT WAS 34.7. WHEN WE CORRECT THIS RATE FOR NON-RESIDENTS, IT IS 33.4, ONLY SLIGHTLY HIGHER, BECAUSE MORE THAN TWO-THIRDS OF THE DEATHS IN THE FIRST YEAR OF LIFE OCCUR IN THE FIRST WEEK, WHILE MOST OF THE BORN ARE STILL IN THE HOSPITALS.

THERE IS STILL NO REDUCTION IN THE MORTALITY RATE UNDER ONE DAY, WHICH IS 11.6. AS A MATTER OF FACT, IT IS THE HIGHEST RATE UNDER ONE DAY SINCE 1940.

THE RATE FOR DEATHS OVER ONE MONTH BUT UNDER ONE YEAR, ON THE OTHER HAND, IS THE LOWEST EVER REPORTED FOR THE CITY - 7.2. THIS RATE HAS BEEN AS HIGH AS 65.4 IN 1918.

IN 1916, A YEAR AFTER THE DIVISION WAS ORGANIZED, 88.4% OF ALL BIRTHS WERE DELIVERED AT HOME AND ONLY 11.6% IN HOSPITALS. IN 1946, 97.5% OF ALL BIRTHS OCCURRED IN HOSPITALS, THE HIGHEST PERCENTAGE IN THE RECORD. FURTHERMORE, LAST YEAR ONLY 108 BABIES OR .8% OF THE TOTAL BIRTHS WERE DELIVERED BY MIDWIVES, IN CONTRAST TO THE HIGH PERCENTAGE IN THE EARLY YEARS OF THE DIVISION'S HISTORY.

THE MATERNAL MORTALITY RATE IS 1.2, THE SECOND LOWEST RATE REPORTED FOR THE CITY SINCE 1916. IN 1925 THE RATE WAS 7.7.

THE STILLBIRTH RATE OF 23.4 IS THE LOWEST RATE REPORTED IN NEWARK WITH THE EXCEPTION OF 1944, WHEN IT WAS 22.9.

94 BOARDING HOMES WERE LICENSED DURING 1946, 20 MORE THAN IN 1945. 21 HOMES WERE REJECTED, IN CONTRAST TO 10 IN 1945. THE NEED FOR FOSTER HOMES AND ACCEPTABLE CHILDREN'S HOMES IN THE CITY IS EVIDENT. THE DIVISION OF CHILD HYGIENE IS CURRENTLY CONSIDERING THE ESTABLISHMENT OF A TEMPORARY EMERGENCY HOME FOR CHILDREN.

(SEE SPECIAL TABLES FOR STATISTICAL DATA)

NURSES' ACTIVITIES

YEAR	TOTAL NURSES	REGISTERED NURSES	REGISTERED NURSES TO 1000 POPULATION	REGISTERED NURSES TO 1000 POPULATION
1927	4,319	7,400	47,957	13,468
1928	4,236	7,593	51,189	16,950
1929	4,609	8,089	57,251	22,038
1930	4,777	8,437	61,445	32,298
1931	5,070	11,899	68,715	32,395
1932	4,915	12,397	76,575	41,971
1933	4,386	11,866	71,093	34,845
1934	4,286	12,219	67,536	29,380
1935	4,060	12,948	72,877	25,903
1936	3,820	14,890	71,476	23,101
1937	3,532	13,785	71,507	23,823
1938	4,972	15,848	69,410	24,921
1939	5,152	14,700	68,292	26,604
1940	5,364	13,591	64,135	24,597
1941	5,747	13,034	61,280	24,340
1942	7,042	15,149	67,825	19,981
1943	7,530	16,663	76,632	16,706
1944	6,605	13,003	81,289	12,782
1945	6,834	12,439	72,373	11,040
1946	8,173	14,096	74,904	14,305

LABORATORIES

DR. H. A. TARRELL, CHIEF BACTERIOLOGIST - DR. H. S. WARTLAND, PATHOLOGIST
 HALSEY DURAND, P.S., CHIEF CHEMIST

BACTERIOLOGICAL LABORATORY

DR. H. A. TARRELL, CHIEF BACTERIOLOGIST

DIPHTHERIA CULTURES - - - - -	2965
" " POSITIVE - - - - -	8
TUBERCULOSIS SPUTA - - - - -	3020
" " POSITIVE - - - - -	271
TYPHOID (TIDALS) - - - - -	77
" " POSITIVE - - - - -	5
PARA TYPHOID BLOOD - - - - -	125
" " A POSITIVE - - - - -	5
" " B " - - - - -	2
DOG BRAIN EXAM. (PABIES) - - - - -	157
POSITIVE " (OUT-OF-TOWN DOGS) - - - - -	32
" " (NEWARK DOGS) - - - - -	34
VINCENTS ANGINA SMEARS - - - - -	3931
" " POSITIVE - - - - -	814
GONORRHOEA SMEARS - - - - -	7447
" " POSITIVE - - - - -	1170
EXAM. FOR FOOD POISONING - - - - -	143
" " UNDULANT FEVER - - - - -	16
" " OF FECES & URINE - - - - -	31
WATER EXAMINATIONS - - - - -	609
MILK " - - - - -	3080
ICE CREAM " - - - - -	308
SHELL FISH " - - - - -	59
SWABINGS FROM EATING UTENSILS - - - - -	774
PASTEUR TREATMENTS GIVEN - - - - -	22

SEROLOGICAL LABORATORY

DR. H. S. WARTLAND, PATHOLOGIST

BLOOD WASSERMANN - KOLMER TECHNIC - - - - -	5974
" " POSITIVE - - - - -	3009
SPINAL FLUID WASSERMANN - - - - -	1106
" " POSITIVE - - - - -	109
KAHN PRECIPITATION TESTS - - - - -	64616
" " POSITIVE - - - - -	5374
DARKFIELD EXAMINATIONS - - - - -	11
" " POSITIVE - - - - -	0
SMEARS FOR GONOCOCCI CITY HOSP. ONLY - - - - -	7735
" " POSITIVE - - - - -	409
MICROPHILE ANTIBODY TESTS - - - - -	64
" " POSITIVE - - - - -	10
RH TYPING - - - - -	1557
RH POSITIVE - - - - -	87 %
TOTAL EXAMINATIONS - - - - -	81073

SOURCE OF BLOOD SPECIMENS FOR

SYPHILIS EXAMINATION

CITY HOSP. CHIEFLY EXCLUSION TEST - - - - -	7311
CITY DISP. (ROUTINE FOR PATIENTS) AND TO CONFIRM POS. KLINE TESTS OF FOODHANDLERS AND DOMESTICS - - - - -	7197
OTHER HOSPITALS IN NEWARK - - - - -	4436
PHYSICIANS OF NEWARK - - - - -	45360
PRENATAL TESTS REQUIRED BY LAW - - - - -	8636
PRENATAL TESTS REQUIRED BY LAW - - - - -	16366

* MANY PRENATAL BLOODS PROBABLY NOT SO INDICATED.

CHEMICAL LABORATORY

HALSEY DURAND, B.S., CHEMIST

TOTAL EXAMINATIONS - - - - -	7699
MILK SAMPLES - - - - -	3086
" " BELOW STANDARD - - - - -	6
MILK AVERAGE SOLIDS (ALL SAMPLES) - - - - -	12.43
" " FAT " " - - - - -	3.75
CREAM SAMPLES - - - - -	1
" " BELOW STANDARD - - - - -	0
ICE CREAM SAMPLES - - - - -	233
" " BELOW STANDARD - - - - -	7
LATER SAMPLES - - - - -	479
MISCL. " - - - - -	567
PHOSPHATASE TEST (MILK PASTEURISATION) - - - - -	3333

NOTE - SPECIAL EXAMINATIONS INCLUDED
 HORSE MEAT, ADDED SULPHITES AND EXCESSIVE FAT CONTENT IN MEATS;
 ARTIFICIAL FLAVORINGS, ETC.

GONORRHOEA CULTURE LABORATORY

RUSSELL STEIN, B.S., BACTERIOLOGIST

BEING SUBSIDIZED BY STATE AND FEDERAL FUNDS. CULTURE EXAMINATIONS WERE MADE FOR ALL NORTH JERSEY. (SPECIMENS CAN BE DELIVERED FOR DAILY COLLECTION AT ALL NEWARK PRIVATE HOSPITALS)

TOTAL NEWARK G.C. CULTURES - - - - -	9305
POSITIVE - - - - -	1585

DISPENSARY LABORATORY

CARL CORDASCO, ASST. BACTERIOLOGIST

	TOTAL	POS.
<u>KLINE</u>		
FOOD HANDLERS - - - - -	19136	207
<u>BLOOD TESTS</u>		
DOMESTICS - - - - -	1757	76
<u>FOR</u>		
INDUSTRIAL - - - - -	2052	36
<u>SYPHILIS</u>		
CLINICS - - - - -	8493	1768
MILITARY - - - - -	6129	43
PRIVATE DOCTOR - - - - -	5274	216
TOTAL KLINE'S - - - - -	43541	2346
QUANTITATIVE KLINE TESTS - - - - -	41	19
DARKFIELDOS - - - - -	252	107
SPINAL FLUIDS - - - - -	443	65
GONORRHOEA SMEARS - - - - -	9694	2595
VINCENTS ANGINA SMEARS - - - - -	4784	1632
THRUSH SMEARS - - - - -	18	15
TRICHOMONAS VAGINALIS - - - - -	55	42
PROSTATE SMEARS - - - - -	32	22
URINALYSIS - - - - -	1654	-
SPECIAL TESTS FOR BLOOD COUNT		
CLOTTING & BLEEDING TIME, SEDIMENTATION RATE, ETC. - - - - -	643	-

